

Mouse SFRP4 ELISA Kit

Cat#: orb779886 (MSDS)

- 1. Identification
- 1.1 GHS Product identifier
 Product name ELISA test assay
- **1.2 Other means of identification Other names** ELISA Kit
- 1.3 Recommended use of the chemical and restrictions on use Identified uses For research use only
 Uses advised against no data available
- 2. Hazard identification

Disposal none

- **2.1 Classification of the substance or mixture** Not classified.
- 2.2 GHS label elements, including precautionary statements
 Pictogram(s) No symbol.
 Signal word No signal word
 Hazard statement(s) none
 Precautionary statement(s)
 Prevention none
 Response none
 Storage none
- **2.3 Other hazards which do not result in classification** no data available



3. Composition/information on ingredients

3.1 Substances

Chemical name	Common names and synonyms	CAS number	EC number	Concentration
Water	Water	7732-18- 5	231-791- 2	78. 39%
Sodium chloride	Sodium chloride	7647-14- 5	231-598- 3	14. 16%
Sucrose	Sucrose	57-50-1	200-334- 9	2. 28%
Poly(oxy-1,2-ethanediyl),α- hydro-ω-hydroxy- Ethane-1,2- diol, ethoxylated	Poly (ethylene glycol) - 4000	25322- 68-3	500-038- 2	1. 33%
Potassium sodium tartrate tetrahydrate	Potassium sodium tartrate tetrahydrate	6381-59- 5	613-385- 0	1. 07%
Potassium chloride	Potassium chloride	7447-40- 7	231-211- 8	0.81%
Disodium phosphate dodecahydrate	Disodium hydrogen phosphate	10039- 32-4	600-088- 6	0. 63%
Glycerol	Glycerol	56-81-5	200-289- 5	0. 51%
Trisodium citrate	Sodium citrate	68-04-2	200-675- 3	0. 42%
Polyvinyl pyrrolidone	PVP40	9003-39- 8	618-363- 4	0. 35%
Potassium dihydrogenorthophosphate	Potassium dihydrogen phosphate	7778-77- 0	231-913- 4	0. 05%

4. First-aid measures

4.1 Description of necessary first-aid measures

General advice

Medical attention is required. Consult a doctor. Show this safety data sheet (SDS) to the doctor in attendance.

If inhaled

Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.



Following skin contact

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

Following eye contact

Rinse with pure water for at least 15 minutes. Consult a doctor.

Following ingestion

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.

4.2 Most important symptoms/effects, acute and delayed

no data available

4.3 Indication of immediate medical attention and special treatment needed, if necessary

no data available

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use dry chemical, carbon dioxide or alcohol-resistant foam.

5.2 Specific hazards arising from the chemical

no data available

5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of

spill/leak.

6.2 Environmental precautions

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.



7. Handling and storage

7.1 Precautions for safe handling

Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

7.2 Conditions for safe storage, including any incompatibilities

Store the container tightly closed in a dry, cool and well-ventilated place. Store apart from foodstuff containers or incompatible materials.

8. Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure limit values

Component	Sodium chl	Sodium chloride				
CAS No.	7647-14-5					
	Limit val	ue - Eight hours	Limit val	ue - Short term		
	ppm	mg/m ³	ppm	mg/m ³		
Latvia		5				
	Remarks					

Component	Sucrose				
CAS No.	57-50-1				
	Limit value - Eight hours Limit value - Short term			Short term	
	ppm	mg/m ³	pp	m	mg/m ³



Component	Sucrose	Sucrose			
CAS No.	57-50-1	7-50-1			
Australia		10 (1)			
Belgium		10			
Canada -		10			
Ontario					
Canada - Québec		10			
France		10			
Ireland		10		20 (1)	
New Zealand		10 (1)			
Singapore		10			
South Korea		10			
Spain		10			
USA - NIOSH		10 total dust			
		5 respirable fraction			
USA - OSHA		15 inhalable aerosol			
		5 respirable aerosol			
United Kingdom		10		20	
	Remarks				
Australia	(1) This	value is for inhalable dust contain	ing no asbestos a	and	
Ireland	(1) 15 mi	(1) 15 minutes reference period			
New Zealand	(1) The v silica.	alue for inhalable dust containing	no asbestos and	less than 1% free	



Component	Potassium c	Potassium chloride				
CAS No.	7447-40-7		_			
	Limit valu	Limit value - Eight hours Limit value - Short term				
	ppm	mg/m ³	ppm	mg/m ³		
Latvia		5				
	Remarks					

Component	Glycerol			
CAS No.	56-81-5			
	Limit	value - Eight hours	Limit	value - Short term
	ppm	mg/m ³	ppm	mg/m ³
Australia		10 (1)		
Belgium		10		
Canada - Ontario		10		
Canada - Québec		10		
Finland		20		
France		10		
Germany (AGS)		200 (1)		400 (1)(2)
Germany (DFG)		200 (1)		400 (1)(2)
Ireland		10		
New Zealand		10 (1)		



Component	Glycerol	Glycerol			
CAS No.	56-81-5				
Poland		10			
Singapore		10			
South Korea		10			
Spain		10			
Switzerland		50 inhalable aerosol		100 inhalable aerosol	
USA - OSHA		15 inhalable dust			
		5 respirable dust			
United Kingdom		10			
	Remarl	KS			
Australia	(1) This	(1) This value is for inhalable dust containing no asbestos and			
Germany (AGS)	(1) Inhala	(1) Inhalable fraction (2) 15 minutes average value			
Germany (DFG)	(1) Inhala) Inhalable fraction (2) 15 minutes average value			
New Zealand	(1) The v silica.	alue for inhalable dust containing	no asbe	stos and less than 1% free	

8.2 Appropriate engineering controls

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH (US).

Skin protection

Wear fire/flame resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Respiratory protection

If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator.

Thermal hazards

no data available

9. Physical and chemical properties

Physical state colourless liquid
Colour no data available
Odour no data available
Melting point/ freezing point 0 °C



Boiling point or initial

Boiling point and boiling range 100°C(lit.)

Flammability no data available

Lower and upper explosion

limit / flammability limit no data available

Flash point 100°C

Auto-ignition temperature no data available

Decomposition temperature no data available

pH no data available

Kinematic viscosity no data available

Solubility no data available

Partition coefficient noctanol/ water no data available

Vapour pressure 3 mm Hg (37 °C)

Density and/or relative density 1.000g/mLat 3.98°C(lit.)

Relative vapour density <1 (vs air)

Particle characteristics no data available

10. Stability and reactivity

10.1 Reactivity

no data available

10.2 Chemical stability

no data available

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

no data available

10.5 Incompatible materials

no data available

10.6 Hazardous decomposition products

no data available

11. Toxicological information

Acute toxicity

Oral: no data available

Inhalation: no data available Dermal: no data available



Skin corrosion/irritation

no data available

Serious eye damage/irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

STOT-single exposure

no data available

STOT-repeated exposure

no data available

Aspiration hazard

no data available

12. Ecological information

12.1 Toxicity

Toxicity to fish: no data available

Toxicity to daphnia and other aquatic invertebrates: no data available

Toxicity to algae: no data available

Toxicity to microorganisms: no data available

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Other adverse effects

no data available

13. Disposal considerations

13.1 Disposal methods

Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled



incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning.

Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

14. Transport information

14.1 UN Number

ADR/RID: Not dangerous goods. IMDG: Not dangerous goods. IATA: Not dangerous goods.

14.2 UN Proper Shipping Name

ADR/RID: Not dangerous goods. IMDG: Not dangerous goods. IATA: Not dangerous goods.

14.3 Transport hazard class(es)

ADR/RID: Not dangerous goods. IMDG: Not dangerous goods. IATA: Not dangerous goods.

14.4 Packing group, if applicable

ADR/RID: Not dangerous goods. IMDG: Not dangerous goods. IATA: Not dangerous goods.

14.5 Environmental hazards

ADR/RID: No IMDG: No IATA: No

14.6 Special precautions for user

no data available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

no data available



15. Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

Chemical name	Common names and synonyms	CAS number	EC number			
Water	Water	7732-18-5	231-791-2			
European Inventor (EINECS)	Not Listed.					
EC Inventory	Not Listed.					
United States Toxi	c Substances Control Act (TSCA) Inv	ventory	Not Listed.			
China Catalog of I	Hazardous chemicals 2015		Not Listed.			
New Zealand Inve	ntory of Chemicals (NZIoC)		Not Listed.			
Philippines Invent (PICCS)	ory of Chemicals and Chemical Subs	tances	Not Listed.			
Vietnam National	Chemical Inventory		Not Listed.			
Chinese Chemical IECSC)	Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)					
Chemical name	Common names and synonyms	CAS number	EC number			
Chemical name Sodium chloride	Common names and synonyms Sodium chloride	CAS number 7647-14-5	EC number 231-598-3			
Sodium chloride	· · ·	7647-14-5				
Sodium chloride European Inventor	Sodium chloride	7647-14-5	231-598-3			
Sodium chloride European Inventor (EINECS) EC Inventory	Sodium chloride	7647-14-5 Substances	231-598-3 Not Listed.			
Sodium chloride European Inventor (EINECS) EC Inventory United States Toxi	Sodium chloride ry of Existing Commercial Chemical	7647-14-5 Substances	231-598-3 Not Listed. Not Listed.			
Sodium chloride European Inventor (EINECS) EC Inventory United States Toxi China Catalog of I	Sodium chloride ry of Existing Commercial Chemical c Substances Control Act (TSCA) Inv	7647-14-5 Substances	231-598-3 Not Listed. Not Listed. Not Listed.			
Sodium chloride European Inventor (EINECS) EC Inventory United States Toxi China Catalog of I New Zealand Inventory	Sodium chloride ry of Existing Commercial Chemical c Substances Control Act (TSCA) Inv Hazardous chemicals 2015	7647-14-5 Substances ventory	231-598-3 Not Listed. Not Listed. Not Listed. Not Listed.			
Sodium chloride European Inventor (EINECS) EC Inventory United States Toxi China Catalog of I New Zealand Inventor (PICCS)	Sodium chloride ry of Existing Commercial Chemical c Substances Control Act (TSCA) Inv Hazardous chemicals 2015 ntory of Chemicals (NZIoC)	7647-14-5 Substances ventory	231-598-3 Not Listed. Not Listed. Not Listed. Not Listed. Not Listed.			



Chemical name	Common names and	synonyms	CAS	number	EC number
Sucrose	Sucrose		57	'-50-1	200-334-9
European Inventor (EINECS)	ry of Existing Commer	cial Chemical	Substa	nces	Not Listed.
EC Inventory		Not Listed.			
United States Toxi	c Substances Control A	ct (TSCA) Inv	ventory	7	Not Listed.
China Catalog of I	Hazardous chemicals 20	015			Not Listed.
New Zealand Inve	ntory of Chemicals (NZ	ZIoC)			Not Listed.
Philippines Invent (PICCS)	ory of Chemicals and C	Chemical Subst	tances		Not Listed.
Vietnam National	Chemical Inventory				Not Listed.
Chinese Chemical IECSC)	Not Listed.				
Chem	ical name	Common na and synony		CAS number	EC number
	diyl),α-hydro-ω-hydroxy- diol, ethoxylated	Poly (ethylene g 4000	lycol) -	25322-68- 3	500-038-2
European Invento (EINECS)	ry of Existing Commer	cial Chemical	Substa	nces	Not Listed.
EC Inventory					Not Listed.
United States Toxi	c Substances Control A	Act (TSCA) In	ventory	y	Not Listed.
China Catalog of I	Hazardous chemicals 20	015			Not Listed.
New Zealand Inventory of Chemicals (NZIoC)					Not Listed.
Philippines Inventory of Chemicals and Chemical Substances (PICCS)					Not Listed.
Vietnam National	Chemical Inventory				Not Listed.
Chinese Chemical IECSC)	Inventory of Existing (Chemical Subs	tances	(China	Not Listed.



Chemical name	Common names and synonyms	CAS number	EC number
Potassium sodium tartrate tetrahydrate	Potassium sodium tartrate tetrahydrate	6381-59-5	613-385-0
European Inventory of Exist (EINECS)	Not Listed.		
EC Inventory			Not Listed.
United States Toxic Substan	ces Control Act (TSCA) Inv	entory	Not Listed.
China Catalog of Hazardous	s chemicals 2015		Not Listed.
New Zealand Inventory of C	hemicals (NZIoC)		Not Listed.
Philippines Inventory of Cho (PICCS)	emicals and Chemical Subst	ances	Not Listed.
Vietnam National Chemical	Inventory		Not Listed.
Chinese Chemical Inventory IECSC)	of Existing Chemical Subs	tances (China	Not Listed.
Chemical name Comm	on names and synonyms	CAS number	EC number
Potassium chloride	Potassium chloride	7447-40-7	231-211-8
European Inventory of Exis (EINECS)	ting Commercial Chemical	Substances	Not Listed.
EC Inventory			Not Listed.
United States Toxic Substan	ces Control Act (TSCA) Inv	entory	Not Listed.
China Catalog of Hazardous	s chemicals 2015		Not Listed.
New Zealand Inventory of C	Not Listed.		
Philippines Inventory of Ch (PICCS)	Not Listed.		
Vietnam National Chemical	Inventory		Not Listed.
Chinese Chemical Inventory IECSC)	of Existing Chemical Subs	tances (China	Not Listed.



Chemical name	Common names and synonyms	CAS number	EC number
disodium hydrogen phospha	te disodium hydrogen phosphate	10039-32-4	600-088-6
European Inventory of (EINECS)	Not Listed.		
EC Inventory			Not Listed.
United States Toxic Su	ostances Control Act (TSCA) Inv	entory	Not Listed.
China Catalog of Haza	dous chemicals 2015		Not Listed.
New Zealand Inventor	of Chemicals (NZIoC)		Not Listed.
Philippines Inventory (PICCS)	f Chemicals and Chemical Subst	ances	Not Listed.
Vietnam National Che	nical Inventory		Not Listed.
Chinese Chemical Inve IECSC)	ntory of Existing Chemical Subst	ances (China	Not Listed.
Chemical name C	mmon names and synonyms	CAS number	EC number
Glycerol	Glycerol	56-81-5	200-289-5
European Inventory of (EINECS)	Existing Commercial Chemical S	Substances	Not Listed.
EC Inventory			Not Listed.
United States Toxic Su	ostances Control Act (TSCA) Inv	entory	Not Listed.
China Catalog of Haza	dous chemicals 2015		Not Listed.
New Zealand Inventory	Not Listed.		
Philippines Inventory (PICCS)	Not Listed.		
Vietnam National Cher	nical Inventory		Not Listed.
Chinese Chemical Inve IECSC)	ntory of Existing Chemical Subst	ances (China	Not Listed.



Chemical name	Commo	n names and synonyms	CAS number	EC number	
Trisodium citrate		Sodium citrate	68-04-2	200-675-3	
European Inventor (EINECS)	y of Existi	ng Commercial Chemical	Substances	Not Listed.	
EC Inventory				Not Listed.	
United States Toxio	c Substanc	es Control Act (TSCA) Inv	ventory	Not Listed.	
China Catalog of H	Iazardous	chemicals 2015		Not Listed.	
New Zealand Inver	ntory of Cl	nemicals (NZIoC)		Not Listed.	
Philippines Invento (PICCS)	ory of Che	micals and Chemical Subst	tances	Not Listed.	
Vietnam National	Chemical I	nventory		Not Listed.	
Chinese Chemical (IECSC)	Inventory	of Existing Chemical Subs	tances (China	Not Listed.	
Chemical name	Comm	on names and synonyms	CAS number	EC number	
Polyvinyl pyrrolidone	618-363-4				
European Inventor (EINECS)	ry of Existi	ng Commercial Chemical	Substances	Not Listed.	
EC Inventory				Not Listed.	
United States Toxi	c Substanc	es Control Act (TSCA) In	ventory	Not Listed.	
China Catalog of H	Iazardous	chemicals 2015		Not Listed.	
New Zealand Inver	ntory of Cl	nemicals (NZIoC)		Not Listed.	
Philippines Invento (PICCS)	ory of Che	micals and Chemical Subs	tances	Not Listed.	
Vietnam National	Chemical 1	Inventory		Not Listed.	
Chinese Chemical IECSC)	Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)				
Chemical na	EC number				
Potassium dihydrogenorthoph	231-913-4				
European Inventor (EINECS)	ry of Existi	ing Commercial Chemical	Substances	Not Listed.	



EC Inventory	Not Listed.
United States Toxic Substances Control Act (TSCA) Inventory	Not Listed.
China Catalog of Hazardous chemicals 2015	Not Listed.
New Zealand Inventory of Chemicals (NZIoC)	Not Listed.
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	Not Listed.
Vietnam National Chemical Inventory	Not Listed.
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)	Not Listed.

16. Other information

Abbreviations and acronyms

CAS: Chemical Abstracts Service

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulation concerning the International Carriage of Dangerous Goods by Rail

IMDG: International Maritime Dangerous Goods IATA: International Air Transportation Association

TWA: Time Weighted Average STEL: Short term exposure limit LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

EC50: Effective Concentration 50%