

## Product Datasheet

### Magainin 1 (orb1147092)

<b>Catalog Number</b>	orb1147092
<b>Category</b>	Proteins
<b>Description</b>	Broad spectrum antimicrobial; Antibacterial; Antiviral; Anticancer; Antimicrobial peptides.
<b>Form/Appearance</b>	Freeze dried solid
<b>Purity</b>	> 95% by HPLC
<b>Protein Sequence</b>	H-Gly-Ile-Gly-Lys-Phe-Leu-His-Ser-Ala-Gly-Lys-Phe-Gly-Lys-Ala-Phe-Val-Gly-Glu-Ile-Met-Lys-Ser-OH
<b>MW</b>	2409.8 Da
<b>Structure</b>	H-Gly-Ile-Gly-Lys-Phe-Leu-His-Ser-Ala-Gly-Lys-Phe-Gly-Lys-Ala-Phe-Val-Gly-Glu-Ile-Met-Lys-Ser-OH
<b>Modifications</b>	None
<b>Target Areas</b>	Antibacterials, Antivirals
<b>Solubility (25°C)</b>	Soluble in dilute acid
<b>CAS Number</b>	108433-99-4
<b>Formula</b>	$C_{112}H_{177}N_{29}O_{28}S$
<b>Storage</b>	Store frozen and desiccated in the dark

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## Background

Magainin 1 is a 23 amino acid amphipathic cationic peptide with broad-spectrum antimicrobial activities, originally extracted from the skin of the African clawed frog *Xenopus laevis*. Magainin 1 (and Magainin 2) are closely related hemolytic peptides which inhibit growth of bacteria by permeabilizing the cell membranes without significant toxicity against mammalian cells. The main target of magainin 1 and 2 is thought to be the lipid matrix of the membranes. Both magainin 1 and 2 are also cytotoxic to cancer cells and exhibit inhibitory action toward herpes simplex virus 1 and 2 (HSV 1 and 2).

## Note

For research use only

## Expiration Date

12 months from date of receipt.

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