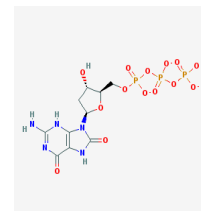


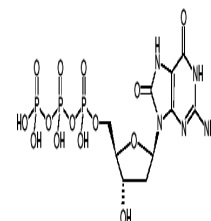
Product Datasheet

8-Oxo-dGTP orb64224

Description	8-oxo-dGTP is a product of oxidative modification of dGTP that can be wrongly incorporated into DNA, causing AT-->CG mutations. 8-Oxo-dG DNA lesions are formed in the cell by reactive oxygen species.
Conjugation	Unconjugated
Tested Applications	HPLC, NMR
Target	8-Oxo-dGTP
Form/Appearance	clear aqueous solution, pH 7.5 +0.5
Concentration	10 mM
Storage	store at -20°C Short term exposure (up to 1 week cumulative) to ambient temperature possible. If stored as recommended, Biorbyt guarantees optimal performance of this product for 12 months after date of delivery.
Note	For research use only.
Purity	> 95 % (HPLC)
Formula	C ₁₀ H ₁₆ N ₅ O ₁₄ P ₃ (free acid)
MW	523.18 g/mol (free acid)
CAS Number	[139307-94-1]
Chemical Name	[[[(2R,3S,5R)-5-(2-amino-6,8-dioxo-3,7-dihydropurin-9-yl)-3-hydroxyoxolan-2-yl]methoxy-oxidophosphoryl]oxy-oxidophosphoryl] hydrogen phosphate
PubChem CID	CID 56927775
Water	>10mM
Expiration Date	12 months from date of receipt.
Application Notes	λ _{max} 245 nm; ε 12.3 L mmol ⁻¹ cm ⁻¹ (Tris-HCl pH 7.5) Influence on base excision repair ^[1] Influence on erroneous incorporation by DNA-polymerases ^[2] Hydrolysis to 8-oxo-dGMP by E.-coli MutT ^[3] Triggering cell senescence through formation of ROS ^[4]



Chemical structure of 8-Oxo-dGTP



Chemical structure of 8-Oxo-dGTP