

Large T antigen - rhesus polyomavirus 560-568

Chemical Properties

CAS No. :

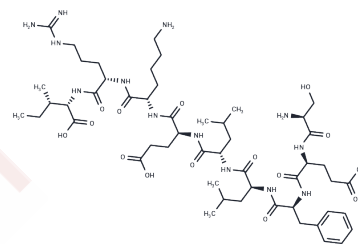
Formula: C52H87N13O15

Molecular Weight: 1134.33

Keep away from moisture

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Large T antigen - rhesus polyomavirus 560-568 has a peptide sequence of Ser-Glu-Phe-Leu-Leu-Glu-Lys-Arg-Ile. T antigen is required for viral DNA replication, transcription, and virion assembly.
Targets(IC50)	Others
In vitro	In addition, the T antigen targets multiple cellular pathways, including those that regulate cell proliferation, cell death, and the inflammatory response. The large T-antigen plays a key role in regulating the viral life cycle by binding to the viral origin of DNA replication where it promotes DNA synthesis. Also as the polyomavirus relies on the host cell machinery to replicate the host cell needs to be in s-phase for this to begin. Due to this, large T-antigen also modulates cellular signaling pathways to stimulate the progression of the cell cycle by binding to a number of cellular control proteins.
In vivo	Polyomaviruses have been extensively studied as tumor viruses in humans and animals, leading to fundamental insights into carcinogenesis, DNA replication, and protein processing. The tumor suppressor molecule p53 was discovered, for example, as a cellular protein bound by the major oncoprotein (cancer-causing protein) T antigen made by Simian vacuolating virus 40 (SV40).

Solubility Information

Solubility	DMSO: ≥113.4 mg/mL, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.8816 mL	4.4079 mL	8.8158 mL
5 mM	0.1763 mL	0.8816 mL	1.7632 mL
10 mM	0.0882 mL	0.4408 mL	0.8816 mL
50 mM	0.0176 mL	0.0882 mL	0.1763 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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