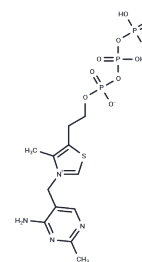


Thiamine triphosphoric acid ester

Chemical Properties

CAS No. :	3475-65-8
Formula:	C ₁₂ H ₁₉ N ₄ O ₁₀ P ₃ S
Molecular Weight:	504.29
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	Thiamine triphosphoric acid ester (TTP) is a neuroactive compound that serves as a triphosphate derivative of the vitamin thiamine. TTP is found in microorganisms, animal organs, and plants. In Escherichia coli, it is produced transiently in response to amino acid deficiency, while in mammalian cells, TTP is synthesized at a low, sustained rate. It can be synthesized by two distinct enzymes: AK1 in the cytoplasm and FoF1-ATP synthase in brain mitochondria. TTP plays an essential role in cellular metabolism or signal transduction.
Targets(IC50)	Endogenous Metabolite

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.983 mL	9.9149 mL	19.8299 mL
5 mM	0.3966 mL	1.983 mL	3.966 mL
10 mM	0.1983 mL	0.9915 mL	1.983 mL
50 mM	0.0397 mL	0.1983 mL	0.3966 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.

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