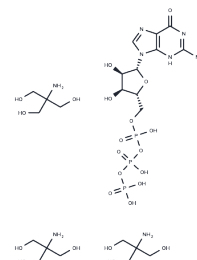


Guanosine triphosphate tritris

Chemical Properties

CAS No. :	103192-46-7
Formula:	C22H49N8O23P3
Molecular Weight:	886.59
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	Guanosine triphosphate tritris (GTP tritris) serves as a crucial enhancer in myocyte differentiation, playing an essential role in regulating miRNA-muscle regulatory factors. It promotes the release of exosomes rich in guanine and guanine-derived molecules, and is considered an activation precursor for RNA synthesis. In mitochondrial functionality, GTP is involved in the entry of proteins into the matrix, which is vital for various regulatory pathways. It initiates peptide synthesis by facilitating the binding of formylmethionine-tRNA to the ribosome, and aids in polypeptide chain elongation. Additionally, GTP acts as a carrier for phosphates and pyrophosphates, channeling chemical energy into specific biosynthetic pathways. It activates signal transduction G proteins, regulates cellular processes such as proliferation and differentiation, and its hydrolysis by small GTPases (including Ras and Rho) is indispensable for both proliferation and apoptosis. Furthermore, the small GTPase Rab assists in vesicle docking, fusion, and formation. Beyond signal transduction, GTP is also an energy-rich precursor in the biosynthesis of DNA and RNA enzymes.
Targets(IC50)	Endogenous Metabolite

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1279 mL	5.6396 mL	11.2792 mL
5 mM	0.2256 mL	1.1279 mL	2.2558 mL
10 mM	0.1128 mL	0.564 mL	1.1279 mL
50 mM	0.0226 mL	0.1128 mL	0.2256 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

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