

2,4,6-Tri-tert-butylphenol

Chemical Properties

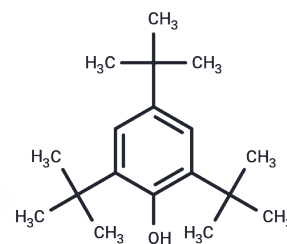
CAS No. : 732-26-3

Formula: C₁₈H₃₀O

Molecular Weight: 262.44

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	2,4,6-Tri-tert-butylphenol inhibits the Ca ²⁺ ATPase activity of human red blood cell membranes and can be used in related research in the field of life sciences.
Targets(IC50)	Calcium Channel
In vitro	2,4,6-Tri-tert-butylphenol exhibits potent agonist activity against RXR α . Exposure to environmentally relevant levels of 2,4,6-Tri-tert-butylphenol significantly promoted adipogenesis in 3T3-L1 cells, as evidenced by increased lipid accumulation and adipogenic gene expression, which was alleviated by the RXR α antagonist UVI 3003.[1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.8104 mL	19.052 mL	38.1039 mL
5 mM	0.7621 mL	3.8104 mL	7.6208 mL
10 mM	0.381 mL	1.9052 mL	3.8104 mL
50 mM	0.0762 mL	0.381 mL	0.7621 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.

Reference

He Y, et al. 2,4,6-tri-tert-butylphenol promoted adipogenesis in 3T3-L1 cells through a retinoid X receptor α -dependent mechanism. Environ Res. 2025 Aug 7;285(Pt 3):122522.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481