

TPH1-IN-1

Chemical Properties

CAS No. :

Formula: C₂₁H₁₈N₆O₄S

Molecular Weight: 450.47

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	TPH1-IN-1 (compound 40) is a xanthine derivative and inhibitor of tryptophan hydroxylase TPH1, with an IC ₅₀ of 110.1 nM. It demonstrates robust in vitro activity and liver microsome stability, effectively impeding the adipocyte differentiation of T3-L1 cells [1].
Targets(IC ₅₀)	Others,Hydroxylase

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2199 mL	11.0995 mL	22.199 mL
5 mM	0.444 mL	2.2199 mL	4.4398 mL
10 mM	0.222 mL	1.110 mL	2.2199 mL
50 mM	0.0444 mL	0.222 mL	0.444 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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