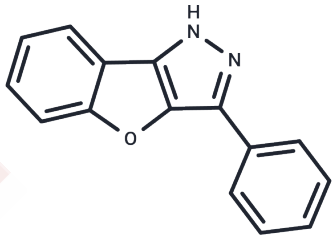
Data Sheet (Cat.No.T71857)

TargetMol

GTP-14564

Chemical Properties



CAS No. : 34823-86-4

Formula: C15H10N2O

Molecular Weight: 234.25

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	GTP-14564 is a novel tyrosine kinase inhibitor that also inhibits wt-FLT3 and ITD-FLT3. GTP-14564 inhibits the growth of interleukin-3-independent Ba/F1 expressing ITD-FLT3 at 3 μ m, whereas a 30-fold higher concentration of GTP-14564 is required to inhibit the FLT3 ligand-dependent growth (wt-FLT3) of Ba/F3 expressing wild-type FLT3. F3 expressing wild-type FLT3 (wt-FLT3).
Targets(IC50)	FLT,Tyrosine Kinases
In vitro	GTP-14564 (1 μM) inhibited the growth of interleukin-3-independent Ba/F3 expressing ITD-FLT3, whereas a 30-fold higher concentration of GTP-14564 was required to inhibit FLT3 ligand-dependent growth of Ba/F3 expressing wild type FLT3 (wt-FLT3).[1]

Solubility Information

Solubility	DMF: 27 mg/mL (115.26 mM),Sonication is recommended. DMSO: 60 mg/mL (256.14 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.2689 mL	21.3447 mL	42.6894 mL
5 mM	0.8538 mL	4.2689 mL	8.5379 mL
10 mM	0.4269 mL	2.1345 mL	4.2689 mL
50 mM	0.0854 mL	0.4269 mL	0.8538 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

Murata K, et al. Selective cytotoxic mechanism of GTP-14564, a novel tyrosine kinase inhibitor in leukemia cells expressing a constitutively active Fms-like tyrosine kinase 3 (FLT3). J Biol Chem. 2003;278(35):32892-32898.
Chen W, et al. mTOR signaling is activated by FLT3 kinase and promotes survival of FLT3-mutated acute myeloid leukemia cells. Mol Cancer. 2010;9:29

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