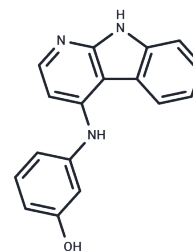


Tilfrinib

Chemical Properties

CAS No. :	1600515-49-8
Formula:	C17H13N3O
Molecular Weight:	275.3
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	Tilfrinib is an effective and selective inhibitor of breast tumor kinase(Brk, IC50 = 3.15 nM) which displays anti-proliferative and anti-tumor activities.
Targets(IC50)	BTK
In vitro	Tilfrinib is against MCF7, HS-578/T, and BT-549 cells with GI50 values of 0.99, 1.02 and 1.58 μ M[2].

Solubility Information

Solubility	DMSO: 120 mg/mL (435.89 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (36.32 mM),Solution. 10% DMSO+90% Saline: < 10 mg/mL (36.32 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6324 mL	18.162 mL	36.324 mL
5 mM	0.7265 mL	3.6324 mL	7.2648 mL
10 mM	0.3632 mL	1.8162 mL	3.6324 mL
50 mM	0.0726 mL	0.3632 mL	0.7265 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

Mahmoud KA, et al. Discovery of 4-anilino α -carboline as novel Brk inhibitors. *Bioorg Med Chem Lett*. 2014 Apr 15; 24(8):1948-51.

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Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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