

Kif15-IN-2

Chemical Properties

CAS No. : 672926-33-9

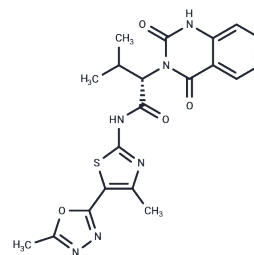
Formula: C₂₀H₂₀N₆O₄S

Molecular Weight: 440.48

Store at low temperature

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	Kif15-IN-2 is a kinesin Kif15 inhibitor with potential anticancer activity and can be used in prostate cancer research.
Targets(IC50)	Kinesin
In vitro	Kif15-IN-2 (Compound 14) is an inhibitor targeting the mitotic kinase Hs Kif15, with potential activity against proliferative diseases such as cancer, hyperplasia, restenosis, cardiac hypertrophy, immunological disorders, and inflammation[1].

Solubility Information

Solubility	DMSO: 15 mg/mL (34.05 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: 2 mg/mL (4.54 mM), Sonication is recommended. <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	2.2703 mL	11.3513 mL	22.7025 mL
5 mM	0.4541 mL	2.2703 mL	4.5405 mL
10 mM	0.227 mL	1.1351 mL	2.2703 mL
50 mM	0.0454 mL	0.227 mL	0.4541 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

Quinazolinone derivatives useful for treating cellular proliferative disorders and disorders associated with Kif15 kinesin activity are described. US 20040053948 A1.

Buster DW, Baird DH, Yu W, Solowska JM, Chauvière M, Mazurek A, Kress M, Baas PW. Expression of the mitotic kinesin Kif15 in postmitotic neurons: implications for neuronal migration and development. *J Neurocytol.* 2003 Jan; 32(1):79-96.

Vanneste D, Takagi M, Imamoto N, Vernos I. The role of Hklp2 in the stabilization and maintenance of spindle bipolarity. *Curr Biol.* 2009 Nov 3;19(20):1712-7.

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