

ZM39923 hydrochloride

Chemical Properties

CAS No. : 1021868-92-7

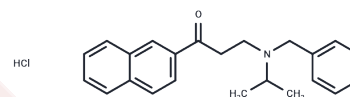
Formula: C₂₃H₂₅NO·HCl

Molecular Weight: 367.91

Store under nitrogen

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	ZM39923 hydrochloride (JAK3 Inhibitor IV) is an JAK1/3 inhibitor with pIC ₅₀ of 4.4/7.1, almost no activity to JAK2 and modestly potent to EGFR; also found to be sensitive to transglutaminase.
Targets(IC ₅₀)	EGFR,Glutaminase,JAK

Solubility Information

Solubility	Ethanol: 8 mg/mL (21.74 mM),Sonication is recommended. DMSO: 28 mg/mL (76.11 mM),Sonication is recommended. H ₂ O: < 1 mg/mL (insoluble or slightly soluble), (< 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 (5.44 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	2.7181 mL	13.5903 mL	27.1806 mL
5 mM	0.5436 mL	2.7181 mL	5.4361 mL
10 mM	0.2718 mL	1.359 mL	2.7181 mL
50 mM	0.0544 mL	0.2718 mL	0.5436 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

Brown GR, et al. Bioorg Med Chem Lett. 2000, 10(6), 575-579.

Lai TS, et al. Chem Biol, 2008, 15(9), 969-978.

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