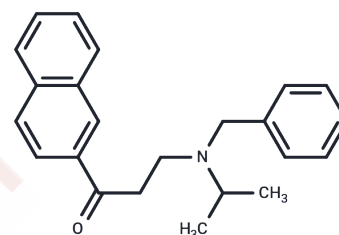


ZM39923

Chemical Properties

CAS No. : 273727-89-2
 Formula: C₂₃H₂₅NO
 Molecular Weight: 331.45
 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 is an effective JAK3 inhibitor (IC ₅₀ =79 nM), simultaneously inhibiting TGM2 and Factor XIIIa (IC ₅₀ =10/25 nM), and also exhibits weak inhibitory activity against EGFR, JAK1, and CDK4 (IC ₅₀ =2.4/40/10 μM).
Targets(IC ₅₀)	Glutaminase,JAK
In vitro	ZM39923 blocks the phosphorylation of JAK3 induced by CCL19, and such an effect is similar to that of CCR7 antibody. ZM39923 also significantly blocks the CCL19 induced wound closure rate, and decreases the migration and invasion of PCI-37B cells[3].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.017 mL	15.0852 mL	30.1705 mL
5 mM	0.6034 mL	3.017 mL	6.0341 mL
10 mM	0.3017 mL	1.5085 mL	3.017 mL
50 mM	0.0603 mL	0.3017 mL	0.6034 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. Naphthyl ketones: a new class of Janus kinase 3 inhibitors. *Bioorg Med Chem Lett.* 2000;10(6):575-579.
- Lai TS, et al. Identification of chemical inhibitors to human tissue transglutaminase by screening existing drug libraries. *Chem Biol.* 2008;15(9):969-978.
- Zhang Z, et al. Jak3 is involved in CCR7-dependent migration and invasion in metastatic squamous cell carcinoma of the head and neck. *Oncol Lett.* 2017;13(5):3191-3197.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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