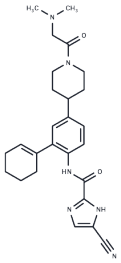
Data Sheet (Cat.No.T21330)

TargetMol

JNJ-28312141

Chemical Properties



CAS No. : 885692-52-4

Formula: C26H32N6O2

Molecular Weight: 460.57

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	JNJ-28312141 is an orally active CSF1R inhibitor and a FLT3 inhibitor. JNJ-28312141 is a new agent with potential therapeutic activity in acute myeloid leukemia and in settings where CSF-1-dependent macrophages and osteoclasts contribute to tumor growth and skeletal events.
Targets(IC50)	c-Fms,Others

Solubility Information

Solubility	H2O: Insoluble, DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1712 mL	10.8561 mL	21.7122 mL
5 mM	0.4342 mL	2.1712 mL	4.3424 mL
10 mM	0.2171 mL	1.0856 mL	2.1712 mL
50 mM	0.0434 mL	0.2171 mL	0.4342 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

Illig CR, Manthey CL, Wall MJ, Meegalla SK, Chen J, Wilson KJ, Ballentine SK, Desjarlais RL, Schubert C, Crysler CS, Chen Y, Molloy CJ, Chaikin MA, Donatelli RR, Yurkow E, Zhou Z, Player MR, Tomczuk BE. Optimization of a potent class of arylamide colony-stimulating factor-1 receptor inhibitors leading to anti-inflammatory clinical candidate 4-cyano-N-[2-(1-cyclohexen-1-yl)-4-[1-[(dimethylamino)acetyl]-4-piperidinyl]pheny l]-1H-imidazole-2-carboxamide (JNJ-28312141). J Med Chem. 2011 Nov 24;54(22):7860-83. doi: 10.1021/jm200900q. Epub 2011 Oct 31. PubMed PMID: 22039836.

Manthey CL, Johnson DL, Illig CR, Tuman RW, Zhou Z, Baker JF, Chaikin MA, Donatelli RR, Franks CF, Zeng L, Crysler C, Chen Y, Yurkow EJ, Boczon L, Meegalla SK, Wilson KJ, Wall MJ, Chen J, Ballentine SK, Ott H, Baumann C, Lawrence D, Tomczuk BE, Molloy CJ. JNJ-28312141, a novel orally active colony-stimulating factor-1 receptor/FMS-related receptor tyrosine kinase-3 receptor tyrosine kinase inhibitor with potential utility in solid tumors, bone metastases, and acute myeloid leukemia. Mol Cancer Ther. 2009 Nov;8(11):3151-61. doi: 10.1158/1535-7163.MCT-09-0255. Epub 2009 Nov 3. PubMed PMID: 19887542.