MOLNOVA
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# Datasheet (Version 1.0)

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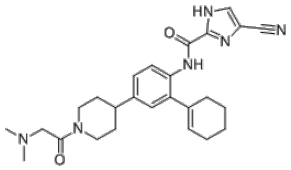
|---|---|---|
| **Product Name** | : | JNJ-28312141 |
| **Synonyms** | : | JNJ28312141 |
| **Cat No.** | : | M16410 |
| **CAS Number** | : | 885692-52-4 |
| **Molecular Formula** | : | C26H32N6O2 |
| **Formula Weight** | : | 460.57 |
| **Chemical Name** | : | 4-cyano-N-(5-(1-(2-(dimethylamino)acetyl)piperidin-4-yl)-2',3',4',5'-tetrahydro-[1,1'-biphenyl]-2-yl)-1H-imidazole-2-carboxamide |
| **Description** | : | JNJ-28312141 is a potent, orally active CSF-1 receptor (CSF-1R) kinase inhibitor with IC50 of 0.69 nM; shows narrow kinase selectivity profile, also potently inhibits KIT (IC50=5 nM), AXL (12 nM), TRKA (15 nM), FLT3 (30 nM), and LCK (88 nM); inhibits CSF-1-induced CSF-1R phosphorylation with IC50 of 5 nM, inhibits CSF-1-dependent proliferation of mouse macrophages and CSF-1-induced expression of MCP-1 by human monocytes with IC50 of 3 nM; inhibits the ITD-FLT3-dependent proliferation of MV-4-11 cells with IC50 of 21 nM, inhibits FLT3 ligand-induced FLT3 phosphorylation in recombinant Baf3 cells with IC50 of 76 nM; demonstrates potential therapeutic activity in AML, solid tumors and bone metastases in vivo. |
| **Pathway** | : | Tyrosine Kinase |
| **Target** | : | CSF1R |
| **Receptor** | : | CSF1R |
| **Solubility** | : | —— |
| **SMILES** | : | O=C(C1=NC(C#N)=CN1)NC2=CC=C(C3CCN(C(CN(C)C)=O)CC3)C=C2C4=CCCCC4 |
| **Storage** | : | (-20℃) |
| **Stability** | : | ≥ 2 years |
| **Reference** | : | |



1. Manthey CL, et al. Mol Cancer Ther. 2009 Nov;8(11):3151-61.| 2. Illig CR, et al. J Med Chem. 2011 Nov 24;54(22):7860-83.