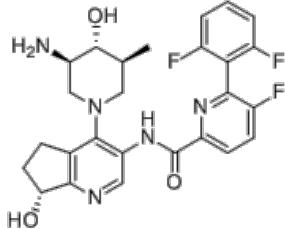


| | | |
|--------------------------|---|---|
| Product Name | : | INCBO53914 |
| Synonyms | : | INCBO-053914 |
| Cat No. | : | M12376 |
| CAS Number | : | 1620012-39-6 |
| Molecular Formula | : | C26H26F3N5O3 |
| Formula Weight | : | 513.52 |
| Chemical Name | : | N-((R)-4-((3R,4R,5S)-3-amino-4-hydroxy-5-methylpiperidin-1-yl)-7-hydroxy-6,7-dihydro-5H-cyclopenta[b]pyridin-3-yl)-6-(2,6-difluorophenyl)-5-fluoropicolinamide |
| Description | : | INCBO53914 (INCBO-053914) is a novel potent, and selective ATP-competitive, pan-PIM kinase inhibitor with IC50 of 0.24/30.0/0.12 nM for PIM1/2/3, respectively; INCBO53914 is highly selective against a panel of more than 50 kinases (>475-fold selectivity) with exception of RSK2 (IC50=7.1 uM); inhibits cellular proliferation in a panel of cell lines derived from hematologic malignancies including AML, MM, DLBCL, MCL, and T-ALL with GI50 of <100 nM, inhibits proliferation in all MM cell lines with GI50 of 13.2-230.0 nM; inhibits PIM kinase-mediated phosphorylation of BAD in MOLM-16 and KMS-12-BM cells with IC50 of 4 and 27 nM, also increases PIM2 expression in KG-1a (AML), Pfeiffer, and KMS12-PE cells; in vivo, INCBO53914 inhibited Bcl-2-associated death promoter protein phosphorylation and dose-dependently inhibited tumor growth in acute myeloid leukemia and multiple myeloma xenografts. Solid Tumors Phase 2 Clinical |
| Pathway | : | JAK/STAT Signaling |
| Target | : | Pim |
| Receptor | : | Pim |
| Solubility | : | — |
| SMILES | : | O=C(NC1=CN=C2C(CC[C@H]2O)=C1N3C[C@@H](N)[C@H](O)[C@@H](C)C3)C4=NC(C5=C(F)C=CC=C5F)=C(F)C=C4 |
| Storage | : | (-20°C) |
| Stability | : | ≥ 2 years |
| Reference | : | |



1. Koblish H, et al. PLoS One. 2018 Jun 21;13(6):e0199108.