MOLNOVA
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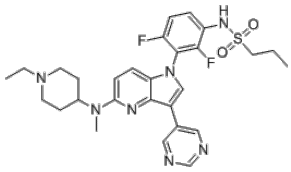
Datasheet (Version 1.0)

Product Name	:	BI 882370
Synonyms	:	BI882370
Cat No.	:	M11633
CAS Number	:	1392429-79-6
Molecular Formula	:	C28H33F2N7O2S
Formula Weight	:	569.68
Chemical Name	:	Propane-1-sulfonic acid (3-{5-[(1-ethyl-piperidin-4-yl)-methyl-amino]-3-pyrimidin-5-yl-pyrrolo[3,2-b]pyridin-1-yl}-2,4-difluoro-phenyl)-amide
Description	:	BI 882370 is a highly potent, selective, orally active RAF inhibitor with IC50 of 0.4, 0.8 and 0.6 nM for BRAF V600E, BRAF WT and CRAF, respectively; demonstrates excellent selectivity (>100-fold) against a panel of 253 kinases (The most sensitive kinase CSF1R IC50=39 nM); binds to the DFG-out (inactive) conformation of the BRAF kinase, unlike vemurafenib and dabrafenib; reduces p-MEK1/2 and p-ERK1/2 signals in BRAFV600E mutation A375 cells (EC50=0.3 nM), inhibits cell proliferation of a panel BRAF-mutant human melanoma and colorectal cancer cell lines (EC50=1-10 nM); demonstrates in vivo anti-cancer activity against human melanoma xenografts in nude mice.
Pathway	:	MAPK/ERK Signaling
Target	:	Raf
Receptor	:	Raf
Solubility	:	——
SMILES	:	CCN1CCC(N(C)C2=CC=C(N(C3=C(F)C=CC(NS(CCC)(=O)=O)=C3F)C=C4C5=CN=CN=C5)C4=N2)CC1
Storage	:	(-20℃)
Stability	:	≥ 2 years
Reference	:	



1. Waizenegger IC, et al. Mol Cancer Ther. 2016 Mar;15(3):354-65.| 2. Stadtmueller H, et al. New azyindolylphenyl sulfonamides as serine/threonine kinase inhibitors). WO2012/104388 A1. 2012.