Product Data Sheet

Product Name: HIF-1 inhibitor-1
Cat. No.: GC39146

Chemical Properties

Cas. No.	2380261-53-8		
SMILES	COC1=CC=CC=C1C2=CN=C(C(NCCC3=CC=CC=C3F)=O)C=C2		
Formula	$C_{21}H_{19}FN_2O_2$	M.Wt	350.39
Solubility	DMF: 30 mg/ml,DMSO: 30 mg/ml,Ethanol: 30 mg/ml	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	HIF-1 inhibitor-1		

Background

N-(2-Fluorophenethyl)-5-(2-methoxyphenyl)picolinamide is an inhibitor of hypoxia-inducible factor (HIF-1) signaling (IC_{50} = 0.32 µM in a cell-based hypoxia responsive element (HRE) reporter assay under hypoxic conditions).[1] It inhibits hypoxia-induced increases in HIF-1α levels in MDA-MB-231, SKOV3, and HeLa cells in a concentration-dependent manner. N-(2-Fluorophenethyl)-5-(2-methoxyphenyl)picolinamide also inhibits hypoxia-induced *VEGF* expression and capillary-like tube formation in human umbilical vein endothelial cells (HUVECs) and inhibits migration and invasion of MDA-MB-231 cells in wound healing and transwell assays under hypoxic conditions. It also reduces lung metastasis in an MDA-MB-231 mouse xenograft model when administered at doses of 15 and 30 mg/kg every other day.

1.Liu, M., Liang, Y., Zhu, Z., et al.Discovery of novel aryl carboxamide derivatives as hypoxia-inducible factor 1α signaling inhibitors with potent activities of anticancer metastasisJ. Med. Chem.62(20)9299-9314(2019)

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA