

Product Name : IDF-11774

Synonyms : IDF 11774; IDF11774

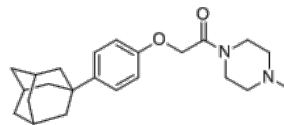
Cat No. : M11810

CAS Number : 1429054-28-3

Molecular Formula : C₂₃H₃₂N₂O₂

Formula Weight : 368.52

Chemical Name : 2-(4-((3r,5r,7r)-adamantan-1-yl)phenoxy)-1-(4-methylpiperazin-1-yl)ethan-1-one



Description : IDF-11774 (IDF 11774, IDF11774) is a potent, orally bioavailable HIF-1 inhibitor that reduces the HRE-luciferase activity of HIF-1α (IC₅₀=3.65 μM) and blocks HIF-1α accumulation under hypoxia in HCT116 human colon cancer cells; suppresses the mRNA expression of HIF-1 target genes VEGF and EPO but not HIF-1α; inhibits the accumulation of HIF-1α in vitro and in vivo in colorectal carcinoma HCT116 cells; exhibits substantial anticancer efficacy in mouse models containing KRAS, PTEN, or VHL mutations.

Pathway : Angiogenesis

Target : HIF/HIF Prolyl-hydroxylase

Receptor : HIF/HIF Prolyl-hydroxylase

Solubility : DMSO : 60 mg/mL 162.82 mM

SMILES : O=C(N1CCN(C)CC1)COC2=CC=C(C34C[C@H]5C[C@@](C4)([H])C[C@H](C5)C3)C=C2

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Ban HS, et al. Bioconjug Chem. 2016 Aug 17;27(8):1911-20. 2. Ban HS, et al. Cell Death Dis. 2017 Jun 1;8(6):e2843.