

Product Name : KCN1

Synonyms : HIF inhibitor KCN1

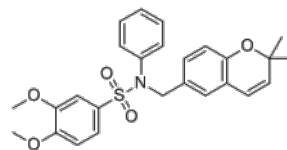
Cat No. : M16642

CAS Number : 927823-01-6

Molecular Formula : C₂₆H₂₇NO₅S

Formula Weight : 465.56

Chemical Name : 3,4-dimethoxy-N-[(2,2-dimethyl-2H-chromen-6-yl)methyl]-N-phenylbenzenesulfonamide



Description : KCN1 (HIF inhibitor KCN1) is a small molecule inhibitor of the HIF-1 pathway, antagonizes HIF transcription in bioassay, blocks the p300/HIF-1 α interaction, and exert potent anticancer activity in vitro and in vivo; specifically inhibits HIF reporter gene activity in several glioma cell lines at the nanomolar level, also downregulates transcription of endogenous HIF-1 target genes, such as VEGF, Glut-1, and carbonic anhydrase 9, in a hypoxia-responsive element (HRE)-dependent manner; inhibits in vivo glioma growth and interferes with HIF signaling by disrupting HIF-1 α interaction with cofactors p300/CBP.

Pathway : Angiogenesis

Target : HIF/HIF Prolyl-hydroxylase

Receptor : HIF/HIF Prolyl-hydroxylase

Solubility : —

SMILES : O=S(C1=CC=C(OC)C(OC)=C1)(N(CC2=CC(C=CC(C)(C)O3)=C3C=C2)C4=CC=CC=C4)=O

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Yin S, et al. Clin Cancer Res. 2012 Dec 15;18(24):6623-33. | 2. Shi Q, et al. ACS Med Chem Lett. 2012 Jun 21;3(8):620-5. | 3. Wang W, et al. PLoS One. 2012;7(9):e44883.