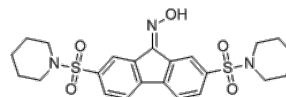


Product Name : CIL-56
Synonyms : YAP1 inhibitor CA3
Cat No. : M13932
CAS Number : 300802-28-2
Molecular Formula : C₂₃H₂₇N₃O₅S₂
Formula Weight : 489.60
Chemical Name : 2,7-bis(piperidin-1-ylsulfonyl)-9H-fluoren-9-one oxime



Description : YAP1 inhibitor CA3 (CA3;CIL56) is a small molecule that has remarkable inhibitory activity on YAP1/TeaD transcriptional activity; also demonstrates strong inhibitory effects on esophageal adenocarcinoma cell growth especially on YAP1 high-expressing esophageal adenocarcinoma cells both in vitro and in vivo; can effectively suppress radiation-resistant cancer stem cell (CSC) properties and aggressive phenotype by inhibiting proliferation, inducing apoptosis, reducing tumor sphere formation; synergistically inhibits cancer cell growth combined with 5-FU; triggers nonapoptotic cell death, a potent and selective probe of ferroptosis; stimulates the activity of ACC1, inhibits the normal breakdown of fatty acids by mitochondrial β -oxidation.

Pathway : Apoptosis

Target : Ferroptosis

Receptor : ROS

Solubility : DMSO: 88 mg/mL (179.7 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

SMILES : O=S(C1=CC2=C(C=C1)C3=C(C=C(S(=O)(N4CCCCC4)=O)C=C3)/C2=N/O)(N5CCCCC5)=O

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Dixon SJ, et al. ACS Chem Biol. 2015 Jul 17;10(7):1604-9. | 2. Song S, et al. Mol Cancer Ther. 2018 Feb;17(2):443-454. | 3. Shimada K, et al. Nat Chem Biol. 2016 Jul;12(7):497-503.