

Product Name : TW-37

Synonyms : TW 37;TW37

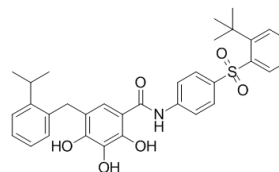
Cat No. : M16371

CAS Number : 877877-35-5

Molecular Formula : C33H35NO6S

Formula Weight : 573.70

Chemical Name : Benzamide, N-[4-[[2-(1,1-dimethylethyl)phenyl]sulfonyl]phenyl]-2,3,4-trihydroxy-5-[[2-(1-methylethyl)phenyl]methyl]-



Description : TW-37 is a potent, nonpeptidic small-molecule inhibitor of Bcl-2 with K_i of 290 nM, also binds to Bcl-xL and Mcl-1 with high affinities; potently inhibits cell growth in PC-3 prostate cancer cells with an IC_{50} value of 200 nM and effectively induces apoptosis in a dose-dependent manner; shows antiangiogenic effect against endothelial cells (IC_{50} =1.8 μ M) with no cytotoxic effects for fibroblasts, induces endothelial cell apoptosis by mitochondrial depolarization and activation of caspase-9 and caspase-3, decreases the density of functional human microvessels in mouse model of human angiogenesis.

Pathway : Angiogenesis

Target : Bcl-2

Receptor : Bcl-2;Bcl-xL;Mcl-1

Solubility : DMSO: $\geq$ 42 mg/mL

SMILES : O=C(NC1=CC=C(S(=O)(=O)C2=CC=CC=C2C(C)C)C=C1)C3=CC(CC4=CC=CC=C4C(C)C)=C(O)C(O)=C3O

Storage : (-20°C)

Stability : $\geq$ 2 years

Reference :

1. Ashimori N, et al. Mol Cancer Ther. 2009 Apr;8(4):893-903.| 2. Wang Z, et al. Cancer Res. 2009 Apr 1;69(7):2757-65.| 3. Zeitlin BD, et al. Cancer Res. 2006 Sep 1;66(17):8698-706.| 4. Wang G, et al. J Med Chem. 2006 Oct 19;49(21):6139-42.