

Product Name : YK-3-237

Synonyms : YK-3 237

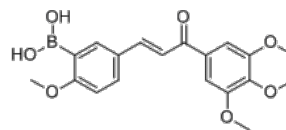
Cat No. : M10805

CAS Number : 1215281-19-8

Molecular Formula : C₁₉H₂₁BO₇

Formula Weight : 372.18

Chemical Name : B-[2-methoxy-5-[(1E)-3-oxo-3-(3,4,5-trimethoxyphenyl)-1-propen-1-yl]phenyl]-boronic acid



Description : A novel small molecule sirtuin-1 (SIRT1) activator that reduces acetylation of mutant 53 and exhibits anti-proliferative effects against TNBC cells carrying mutant p53; demonstrates proliferation inhibition in breast cancer cell panel with EC₅₀ of 0.1-5 uM, also induces PARP-dependent apoptotic cell death and arrests the cell cycle at G2/M phase; enhances expression of α-SMA and fibronectin in cultured rat renal interstitial fibroblasts (NRK-49F).

Pathway : Chromatin/Epigenetic

Target : Sirtuin

Receptor : Sirtuin

Solubility : —

SMILES : B(C1=C(C=CC(=C1)C=CC(=O)C2=CC(=C(C(=C2)OC)OC)OC)OC)(O)O

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Yi YW, et al. Oncotarget. 2013 Jul;4(7):984-94. | 2. Ponnusamy M, et al. J Pharmacol Exp Ther. 2015 Aug;354(2):142-51. | 3. Kong Y, et al. Bioorg Med Chem. 2010 Jan 15;18(2):971-7.

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