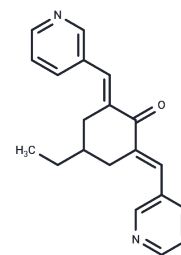


MCB-613

Chemical Properties

CAS No. :	1162656-22-5
Formula:	C ₂₀ H ₂₀ N ₂ O
Molecular Weight:	304.39
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	MCB-613 is an effective steroid receptor coactivator (SRC) stimulator.
Targets(IC50)	Src
In vitro	MCB-613 selectively and reversibly binds to the RID of SRC-3, and selectively kills cancer cells including MCF-7 (breast), PC-3 (prostate), H1299 (lung), and HepG2 (liver) cells, without toxicity to mouse primary hepatocytes and mouse embryonic fibroblasts (MEFs). MCB-613 also increases SRCs' interactions with other coactivators and markedly induces ER stress coupled to the generation of reactive oxygen species (ROS). [1]
In vivo	In an MCF-7 breast cancer mouse xenograft model, MCB-613 (20 mg/kg, i.p.) significantly and dramatically inhibits the growth of the tumor while causing no obvious animal toxicity and body weight less. [1]
Kinase Assay	Luciferase assays: After various compound treatments, cells are lysed in luciferase lysis buffer and assayed for luciferase activity using the ONE-Glo luciferase assay system. All luciferase activities are normalized to protein concentration determined by Bradford assay.
Cell Research	Cells are seeded in 96-well plates and allowed to reach 60% to 70% confluence. After indicated compound treatments, relative numbers of viable cells are measured by MTS assay using the Cell Titer 96 Aqueous One Solution Cell Proliferation Assay.(Only for Reference)

Solubility Information

Solubility	H ₂ O: < 1 mg/mL (insoluble or slightly soluble), Ethanol: 56 mg/mL (184 mM), DMSO: 56 mg/mL (184 mM), < 1 mg/ml refers to the product slightly soluble or insoluble)
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A DRUG SCREENING EXPERT

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2853 mL	16.4263 mL	32.8526 mL
5 mM	0.6571 mL	3.2853 mL	6.5705 mL
10 mM	0.3285 mL	1.6426 mL	3.2853 mL
50 mM	0.0657 mL	0.3285 mL	0.6571 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Wang L, et al. Cancer Cell. 2015, 28(2), 240-252.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only. Not for Human or Veterinary or Therapeutic Use

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