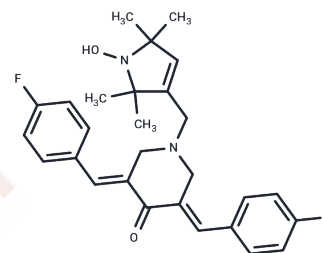


HO-3867

Chemical Properties

CAS No. : 1172133-28-6
Formula: C₂₈H₃₀F₂N₂O₂
Molecular Weight: 464.55
Appearance: no data available
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	HO-3867, an analog of curcumin, is a specific STAT3 inhibitor.
Targets(IC50)	Apoptosis,STAT
Kinase Assay	Scintillation Proximity Assay, 125I-FGF-2 Binding: SPA protein A beads are supplied as a suspension in PBS at 20 mg/mL, then diluted with binding buffer (KCl, 400 mg/L; MgSO ₄ 200 mg/L; NaCl 6.4 g/L; NaHCO ₃ 3.7 g/L; NaH ₂ PO ₄ 0.141 mg/mL; bis Tris Propane 11.292 g/L; Glucose 4.5 g/L; Gelatin 0.1 %; pH 7.0) at 10 mg/mL. 125I-FGF-2 radioligand and FGFR-1IIIc? - Fc Chimera are diluted into binding buffer. Binding was performed on 96-well plates coated with 0.1 % gelatin. Total assay volume is 0.1 mL. Binding of 125I-FGF-2 is determined by incubation of SPA beads coated with protein A (0.5 mg/assay) with FGFR-1IIIc? - Fc chimera soluble receptor (5 ng/assay), FGF-2 (20 ng/assay) is used for non-specific binding determinations.
Cell Research	Cell viability is determined by a colorimetric assay using MTT. In the mitochondria of living cells, yellow MTT undergoes a reductive conversion to formazan, producing a purple color. Cells, grown to ~80% confluence in 75-mm flasks, are trypsinized, counted, seeded in 96-well plates with an average population of 7,000 cells/well, incubated overnight, and then treated with HO-3867 for 24 h. All experiments are done using 8 replicates and repeated at least three times. (Only for Reference)

Solubility Information

Solubility	Ethanol: 6 mg/mL (12.91 mM),Heating is recommended. H ₂ O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 11 mg/mL (23.68 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1526 mL	10.7631 mL	21.5262 mL
5 mM	0.4305 mL	2.1526 mL	4.3052 mL
10 mM	0.2153 mL	1.0763 mL	2.1526 mL
50 mM	0.0431 mL	0.2153 mL	0.4305 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

Selvendiran K, et al. Mol Cancer Ther. 2010, 9(5), 1169-1179.

Selvendiran K, et al. Cancer Biol Ther. 2011, 12(9), 837-845.

Ravi Y, et al. Hypertension. 2013, 61(3), 593-601.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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