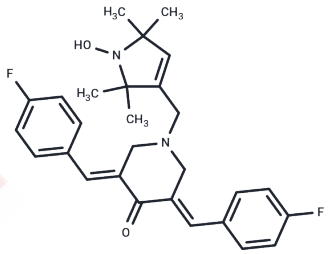
Data Sheet (Cat.No.T6537)

TargetMol

HO-3867

Chemical Properties



CAS No. : 1172133-28-6

Formula: C28H30F2N2O2

Molecular Weight: 464.55

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	HO-3867, an analog of curcumin, is a sspecific 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; MgSO4 200 mg/L; NaCl 6.4 g/L; NaHCO3 3.7 g/L; NaH2PO4 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 (12.92 mM),Heating is recommended. H2O: < 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)
In vivo Formulation	10% DMSO+90% Corn Oil: 1 mg/mL (2.15 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

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.