Data Sheet (Cat.No.T15361)

TargetMol®
YOUR TARGET MOLECULES

FW1256

Chemical Properties

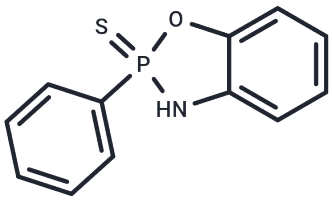
CAS No. : 117089-08-4

Formula: C12H10NOPS

Molecular Weight: 247.25

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	FW1256 is a phenyl analog. It also a slow-releasing hydrogen sulfide (H2S) donor. FW1256 inhibits NF-κB activity and causes cell apoptosis. FW1256 shows potent anti-inflammatory effects. It also has the potential for cancer and cardiovascular disease treatment.
Targets(IC50)	Others
In vitro	FW1256 (200 μM; 24.5 hours; AW264.7 cells) treatment obviously decreases IL-1β, COX-2, iNOS PROTE, and iNOS mRNA and protein in LPS-stimulated RAW264.7 macrophages. FW1256 reduces NF-κB activation as evidenced by reduced cytosolic phospho-IκBα levels and reduces nuclear p65 levels in LPS-stimulated RAW264.7 macrophages treated with FW1256. FW1256 concentration-dependently reduces TNF-α (IC50: 61.2 μM), IL-6 (IC50: 11.7 μM), PGE2 (IC50: 25.5 μM) and NO (IC50: 34.6 μM) generation in LPS-stimulated RAW264.7 macrophages and bone marrow-derived macrophages (BMDMs) (IC50s: 414.9 μM, 300.2 μM, 4 μM and 9.5 μM for TNF-α, IL-6, PGE2 and NO, respectively) [1].
In vivo	Treatment with FW1256 (100 mg/kg; i.p.; male C57BL/6 mice), decreases IL-1β, TNFα, nitrate/nitrite, and PGE2 levels in LPS-treated mice [1].

Solubility Information

Solubility	DMSO: 250 mg/mL (1011.12 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.0445 mL	20.2224 mL	40.4449 mL
5 mM	0.8089 mL	4.0445 mL	8.089 mL
10 mM	0.4044 mL	2.0222 mL	4.0445 mL
50 mM	0.0809 mL	0.4044 mL	0.8089 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

Huang CW, et al. A novel slow-releasing hydrogen sulfide donor, FW1256, exerts anti-inflammatory effects in mouse macrophages and in vivo. Pharmacol Res. 2016 Nov;113(Pt A):533-546.

Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481