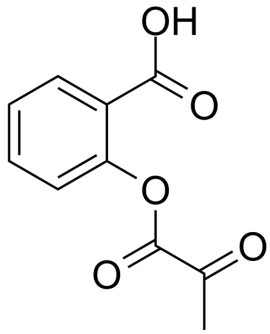
OBA-09

Cat. No.:	HY-12840
CAS No.:	856095-68-6
Molecular Formula:	$C_{10}H_8O_5$
Molecular Weight:	208.17
Target:	Reactive Oxygen Species
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (480.38 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	4.8038 mL	24.0188 mL	48.0377 mL
	5 mM	0.9608 mL	4.8038 mL	9.6075 mL
	10 mM	0.4804 mL	2.4019 mL	4.8038 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (12.01 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (12.01 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (12.01 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

OBA-09, a simple ester of pyruvate and salicylic acid, is potent multi-modal neuroprotectant. OBA-09 has anti-oxidative and anti-inflammatory effects[1][2].

REFERENCES

[1]. Kim SW, et al. Robust protective effects of a novel multimodal neuroprotectant oxopropanoyloxy benzoic acid (a salicylic acid/pyruvate ester) in the postischemic brain. Mol Pharmacol. 2011 Feb;79(2):220-8.

[2]. Lee HK, et, al. Anti-inflammatory effects of OBA-09, a salicylic acid/pyruvate ester, in the postischemic brain. Brain Res. 2013 Aug 28;1528:68-79.

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