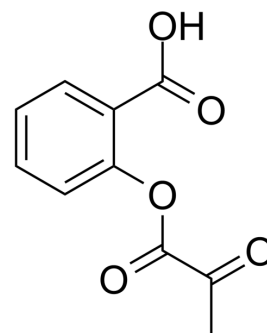


## OBA-09

<b>Cat. No.:</b>	HY-12840		
<b>CAS No.:</b>	856095-68-6		
<b>Molecular Formula:</b>	C <sub>10</sub> H <sub>8</sub> O <sub>5</sub>		
<b>Molecular Weight:</b>	208.17		
<b>Target:</b>	Reactive Oxygen Species		
<b>Pathway:</b>	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB		
<b>Storage:</b>	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	Solvent Concentration	Mass		
		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

- 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
- 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
- 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<sup>[1][2]</sup>.

## REFERENCES

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[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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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA