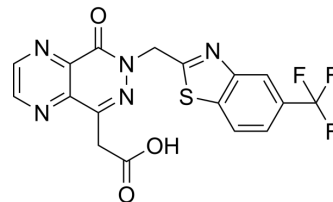


## Caficrestat

Cat. No.:	HY-18967
CAS No.:	1355612-71-3
Molecular Formula:	C <sub>17</sub> H <sub>10</sub> F <sub>3</sub> N <sub>5</sub> O <sub>3</sub> S
Molecular Weight:	421.35
Target:	Aldose Reductase
Pathway:	Metabolic Enzyme/Protease
Storage:	<div> <div>Powder</div> <div>-20°C</div> <div>3 years</div> </div> <div> <div></div> <div>4°C</div> <div>2 years</div> </div> <div> <div>In solvent</div> <div>-80°C</div> <div>2 years</div> </div> <div> <div></div> <div>-20°C</div> <div>1 year</div> </div>



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : ≥ 28 mg/mL (66.45 mM)  
 \* "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.3733 mL	11.8666 mL	23.7332 mL
	5 mM		0.4747 mL	2.3733 mL	4.7466 mL
	10 mM		0.2373 mL	1.1867 mL	2.3733 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 (5.93 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
 Solubility: ≥ 2.5 mg/mL (5.93 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
 Solubility: ≥ 2.5 mg/mL (5.93 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Caficrestat (Aldose reductase-IN-1) is a inhibitor of aldose reductase with IC<sub>50</sub> of 28.9 pM<sup>[1]</sup>.

### REFERENCES

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

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