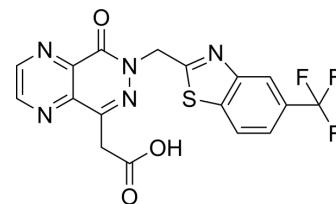


Caficrestat

Cat. No.:	HY-18967		
CAS No.:	1355612-71-3		
Molecular Formula:	C ₁₇ H ₁₀ F ₃ N ₅ O ₃ S		
Molecular Weight:	421.35		
Target:	Aldose Reductase		
Pathway:	Metabolic Enzyme/Protease		
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 : ≥ 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 IC₅₀ of 28.9 pM^[1].

REFERENCES

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

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