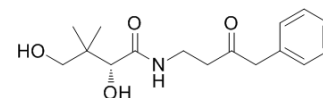


RR6

Cat. No.:	HY-18780		
CAS No.:	1351758-37-6		
Molecular Formula:	C ₁₆ H ₂₃ NO ₄		
Molecular Weight:	293.36		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (340.88 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.4088 mL	17.0439 mL	34.0878 mL
	5 mM	0.6818 mL	3.4088 mL	6.8176 mL
	10 mM	0.3409 mL	1.7044 mL	3.4088 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: ≥ 3.25 mg/mL (11.08 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: ≥ 3.25 mg/mL (11.08 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 3.25 mg/mL (11.08 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

RR6 is a potent, selective, reversible, competitive and orally active vanin inhibitor with an IC₅₀ of 540 nM for recombinant vanin-1. RR6 also potently inhibits human, bovine and rat serum pantetheinase with IC₅₀ values of 40 nM, 41 nM and 87 nM, respectively^[1].

In Vivo

Oral administration of RR6 in Wistar rats (150-200 g) completely inhibited plasma vanin activity and caused alterations of plasma lipid concentrations upon fasting. RR6 at 3 mg/mL in rats caused a nearly complete inhibition of plasma vanin^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Anal Chem. 2017 Oct 17;89(20):11107-11112.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Jansen PA et al. Discovery of small molecule vanin inhibitors: new tools to study metabolism and disease. ACS Chem Biol. 2013 Mar 15;8(3):530-4.
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Caution: Product has not been fully validated for medical applications. For research use only.

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