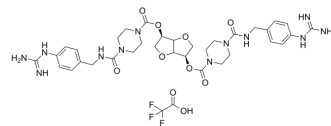


CRA-2059 TFA

Cat. No.:	HY-19303B
Molecular Formula:	C ₃₆ H ₄₇ F ₃ N ₁₂ O ₁₀
Molecular Weight:	864.83
Target:	Ser/Thr Protease
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (115.63 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		1.1563 mL	5.7815 mL	11.5630 mL
		5 mM		0.2313 mL	1.1563 mL	2.3126 mL
10 mM		0.1156 mL	0.5781 mL	1.1563 mL		
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (2.89 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (2.89 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (2.89 mM); Clear solution 					

BIOLOGICAL ACTIVITY

Description	CRA-2059 is a highly specific and selective tryptase inhibitor, with a K _i of 620 pM for recombinant human tryptase-β (rHTβ) ^[1] [2].
In Vitro	Tryptase is a trypsin-like serine protease found as a major protein component in human mast cell secretory granules. CRA-2059 has the potential for inflammatory bowel disease research ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Tremaine WJ, et al. Treatment of mildly to moderately active ulcerative colitis with a tryptase inhibitor (APC 2059): an open-label pilot study. *Aliment Pharmacol Ther.* 2002;16(3):407-413.

[2]. Selwood T, et al. Potent bivalent inhibition of human tryptase-beta by a synthetic inhibitor. *Biol Chem.* 2003;384(12):1605-1611.

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

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