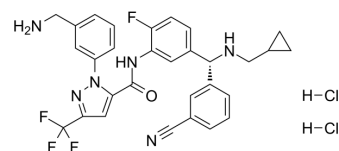


Berotrastat dihydrochloride

Cat. No.:	HY-109127A
CAS No.:	1809010-52-3
Molecular Formula:	C ₃₀ H ₂₈ Cl ₂ F ₄ N ₆ O
Molecular Weight:	635.48
Target:	Ser/Thr Protease
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, stored under nitrogen, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 120 mg/mL (188.83 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration Mass	1 mg	5 mg	10 mg
		1 mM	1.5736 mL	7.8681 mL	15.7361 mL
		5 mM	0.3147 mL	1.5736 mL	3.1472 mL
		10 mM	0.1574 mL	0.7868 mL	1.5736 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1.2 mg/mL (1.89 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.2 mg/mL (1.89 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.2 mg/mL (1.89 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Berotrastat dihydrochloride is a low toxicity, effective, highly specific, second-generation, synthetic and orally active plasma kallikrein inhibitor used for the research of hereditary angioedema (HAE) attacks. Berotrastat dihydrochloride works by blocking the enzymatic activity of plasma kallikrein in releasing bradykinin, the major biologic peptide that promotes swelling and pain associated with attacks of HAE ^{[1][2]} .
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REFERENCES

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- [1]. Zuraw B, et al. Oral once-daily berotralstat for the prevention of hereditary angioedema attacks: A randomized, double-blind, placebo-controlled phase 3 trial [published online ahead of print, 2020 Oct 21]. J Allergy Clin Immunol. 2020;S0091-6749(20)31484-6.
- [2]. Manning ME, et al. Berotralstat (BCX7353) is a novel oral prophylactic treatment for hereditary angioedema: Review of phase II and III studies. Allergy Asthma Proc. 2021;42(4):274-282.
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Caution: Product has not been fully validated for medical applications. For research use only.

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