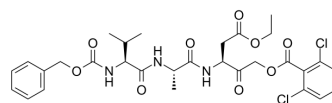


SDZ 224-015

Cat. No.:	HY-141622
CAS No.:	161511-45-1
Molecular Formula:	C ₃₀ H ₃₅ Cl ₂ N ₃ O ₉
Molecular Weight:	652.52
Target:	Interleukin Related; Caspase; SARS-CoV
Pathway:	Immunology/Inflammation; Apoptosis; Anti-infection
Storage:	-20°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (153.25 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent \ Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		1.5325 mL	7.6626 mL	15.3252 mL
		5 mM		0.3065 mL	1.5325 mL	3.0650 mL
		10 mM		0.1533 mL	0.7663 mL	1.5325 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (3.83 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	SDZ 224-015 is an orally active inhibitor of the interleukin-1 beta (IL-1β) converting enzyme and caspase-1. SDZ 224-015 possesses anti-COVID-19 activity, targeting M ^{Pro} (IC ₅₀ of 30 nM) ^{[1][2]} .
In Vivo	SDZ 224-015 (0.3-300 μg/kg) potently reduces carrageenin-induced paw oedema ^[2] . SDZ 224-015 (0.2-5 mg/kg, p.o.) displays analgesic activity in the Randall-Selitto yeast-inflamed paw pressure test, significant at a dose of 1 mg/kg ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Martin A Redhead, et al. Bispecific repurposed medicines targeting the viral and immunological arms of COVID-19. Sci Rep. 2021 Jun 24;11(1):13208.

[2]. P R Elford, et al. Reduction of inflammation and pyrexia in the rat by oral administration of SDZ 224-015, an inhibitor of the interleukin-1 beta converting enzyme. Br J Pharmacol. 1995 Jun;115(4):601-6.

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

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