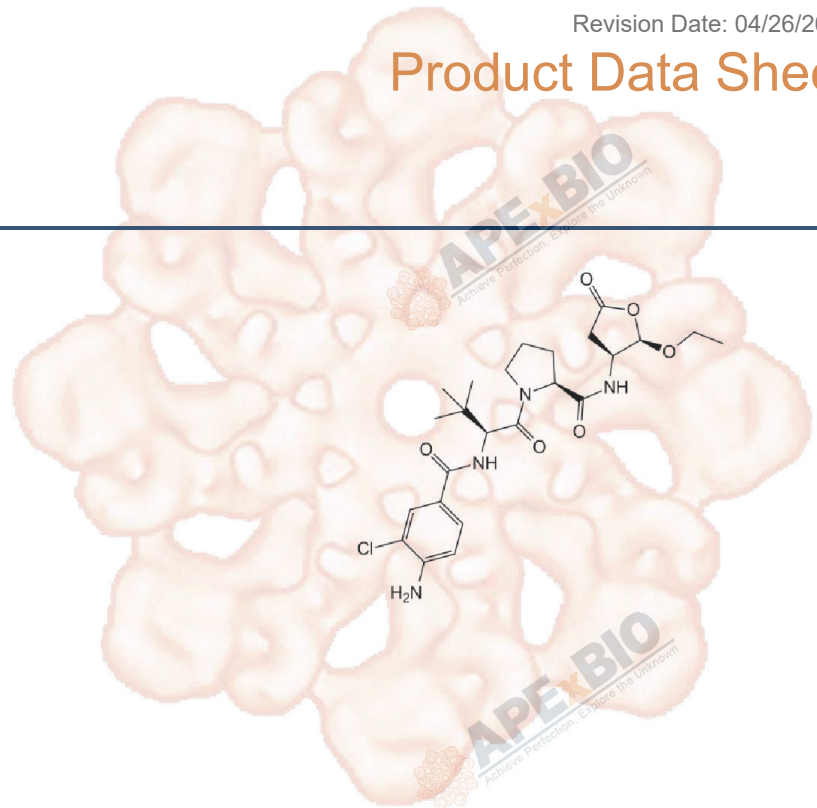


Product Data Sheet

VX-765

Cat. No.:	A8238
CAS No.:	273404-37-8
Formula:	C ₂₄ H ₃₃ CIN ₄ O ₆
M.Wt:	508.99
Synonyms:	
Target:	Apoptosis
Pathway:	Caspase
Storage:	Desiccate at -20°C



Solvent & Solubility

insoluble in H₂O; ≥313 mg/mL in DMSO; ≥50.5 mg/mL in EtOH with ultrasonic

In Vitro

Preparing Stock Solutions	Solvent	Mass	1mg	5mg	10mg
			Concentration		
		1 mM	1.9647 mL	9.8234 mL	19.6468 mL
		5 mM	0.3929 mL	1.9647 mL	3.9294 mL
		10 mM	0.1965 mL	0.9823 mL	1.9647 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary

Caspase-1 inhibitor, potent and selective

IC₅₀ & Target

In Vitro

Cell Viability Assay

Preparation method:

In Vivo

Animal experiment

Animal models: Collagen-induced arthritis (CIA) mouse model

Dosage form: 10, 25, 50 or 100 mg/kg; p.o.; b.i.d.; for 24 days.

Applications: In a CIA mouse model, VX-765 significantly reduced the inflammation scores in

a dose-dependent manner. In addition, 100 mg/kg VX-765 was as efficacious as 5 mg/kg Prednisolone.

Other notes:

Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

1. Yang G, Wang J, et al. "White spot syndrome virus infection activates Caspase 1-mediated cell death in crustacean." Virology. 2018 Dec 13;528:37-47.PMID:30554072

See more customer validations on www.apexbt.com.

References

[1]. Wannamaker W, Davies R, Namchuk M, Pollard J, Ford P, Ku G, et al. (S)-1-((S)-2-[[1-(4-amino-3-chloro-phenyl)-methanoyl]-amino]-3,3-dimethyl-butanoyl)-pyrrolidine-2-carboxylic acid ((2R,3S)-2-ethoxy-5-oxo-tetrahydro-furan-3-yl)-amide (VX-765), an orally available selective interleukin (IL)-converting enzyme/caspase-1 inhibitor, exhibits potent anti-inflammatory activities by inhibiting the release of IL-1beta and IL-18. J Pharmacol Exp Ther 2007,321:509-516.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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