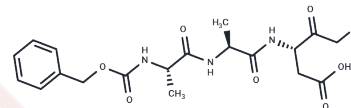


Z-Ala-Ala-Asp-CMK

Chemical Properties

CAS No. :	183284-21-1
Formula:	C ₁₉ H ₂₄ ClN ₃ O ₇
Molecular Weight:	441.86
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Z-Ala-Ala-Asp-CMK (Z-AAD-CMK) is a selective granzyme B inhibitor that blocks granzyme B protease activity, suitable for studies in inflammatory diseases and tumours.
Targets(IC50)	Apoptosis,Others,Caspase,Interleukin,ROS
In vitro	In the co-culture system of normal Homo sapiens keratinocytes and CD8 ⁺ T cells, treatment with 10 ng/mL Z-Ala-Ala-Asp-CMK for 72 hours can block granzyme B-mediated IL-18 activation and IFN-γ secretion [1]. In the model where OSC-3 cells were pre-treated with anticancer drugs or γ-rays before co-culture with LAK cells, treatment with 50 μM Z-Ala-Ala-Asp-CMK for 18 hours induced DNA fragmentation while suppressing Caspase-3 activity and ROS generation [2].

Solubility Information

Solubility	DMSO: 80 mg/mL (181.05 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2632 mL	11.3158 mL	22.6316 mL
5 mM	0.4526 mL	2.2632 mL	4.5263 mL
10 mM	0.2263 mL	1.1316 mL	2.2632 mL
50 mM	0.0453 mL	0.2263 mL	0.4526 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Youichi Omoto, et al. Granzyme B is a novel interleukin-18 converting enzyme. J Dermatol Sci. 2010 Aug;59(2):129-35.

Yamamoto T, et al. Enhanced apoptosis of squamous cell carcinoma cells by interleukin-2-activated cytotoxic lymphocytes combined with radiation and anticancer drugs. Eur J Cancer. 2000 Oct;36(15):2007-17.

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