

Z-IETD-AFC

Chemical Properties

CAS No. : 219138-02-0

Formula: C37H42F3N5O13

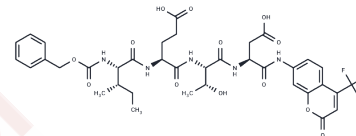
Molecular Weight: 821.75

Storage:

Store at low temperature, Keep away from moisture,
Keep away from direct sunlight

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Z-IETD-AFC is a fluorescent substrate for caspase-8 and granzyme B. It can be used to quantify cysteinyl aspartate-8 or granzyme B activity.
Targets(IC50)	Others
Cell Research	<p>Instructions</p> <p>a. Solution preparation:</p> <ol style="list-style-type: none"> 1. Prepare Z-IETD-AFC powder, dissolve it in DMSO, prepare a 10 mM stock solution, store below -15°C, and protect from light. Prepare DTT (1 M), EDTA (100 mM), and Tris buffer (20 mM, pH=7.4). 2. Mix 50 µL Z-IETD-AFC stock solution, 100 µL DTT, 400 µL EDTA, and 10 mL Tris buffer to prepare a 2x Caspase substrate detection solution, in which the final concentration of Z-IETD-AFC is 50 µM. <p>b. Operation steps:</p> <ol style="list-style-type: none"> 1. Sample processing: Mix samples or cell lysates containing Caspase-8 activity with an equal volume of 2x Caspase substrate detection solution and incubate at room temperature for at least 1 hour. 2. Detection and analysis: The fluorescence intensity was monitored using a fluorescence microplate reader with an excitation wavelength of 376 nm and an emission wavelength of 482 nm. The activity of Caspase-8 was quantified based on the changes in fluorescence intensity. <p>The above information is based on published literature. Experimental procedures should be appropriately modified to meet specific research demands.</p>

Solubility Information

Solubility	H2O: 4 mg/mL (4.87 mM), Sonication is recommended. DMSO: 4 mg/mL (4.87 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	1.2169 mL	6.0846 mL	12.1692 mL
5 mM	0.2434 mL	1.2169 mL	2.4338 mL
10 mM	0.1217 mL	0.6085 mL	1.2169 mL
50 mM	0.0243 mL	0.1217 mL	0.2434 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

Zingler P, et al. Palmitoylation is required for TNF-R1 signaling. Cell Commun Signal. 2019 Aug 5;17(1):90.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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