


Product datasheet

Z-D(OMe)E(OMe)VD(OMe)-FMK, Cell permeable caspase-3 inhibitor ab120488

[2 References](#) [2 Images](#)

Overview

Product name	Z-D(OMe)E(OMe)VD(OMe)-FMK, Cell permeable caspase-3 inhibitor
Description	Cell permeable caspase-3 inhibitor
Biological description	A potent, cell-permeable, and irreversible inhibitor of caspase-3. Also inhibits caspase-6, caspase-7, caspase-8, and caspase-10. Once in the cell, endogenous esterase activity hydrolyzes the methyl groups to form the biologically active form. Therefore, when using with isolated, purified or recombinant caspase enzymes, pre-treatment with an esterase is required.
CAS Number	210344-95-9
Chemical structure	

Properties

Molecular weight	668.67
Molecular formula	C ₃₀ H ₄₁ FN ₄ O ₁₂
Sequence	DEVD (Modifications: N-terminal benzyloxycarbonyl; C-terminal FMK; Asp-1 = Asp(OMe); Glu-2 = Glu(OMe); Asp-4 = Asp(OMe))
PubChem identifier	16760394
Storage instructions	Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.
Solubility overview	Soluble in DMSO to 20 mM
Handling	Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one week. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour. Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.
SMILES	<chem>FCC(=O)[C@H](CC(=O)OC)NC(=O)[C@@H](NC(=O)[C@H](CCC(=O)OC)NC(=O)[C@H](CC(=O)OC)NC(=O)OCc1ccccc1)C(C)C</chem>

Applications

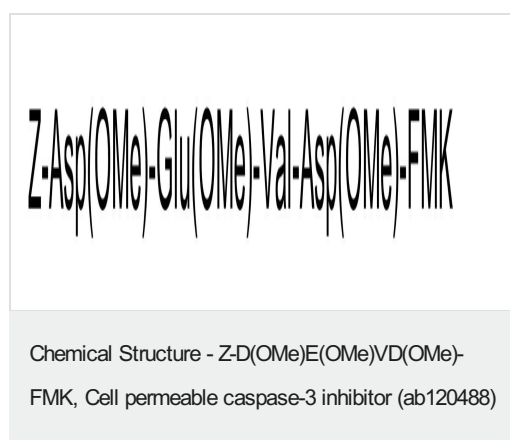
The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab120488 in the following tested applications.

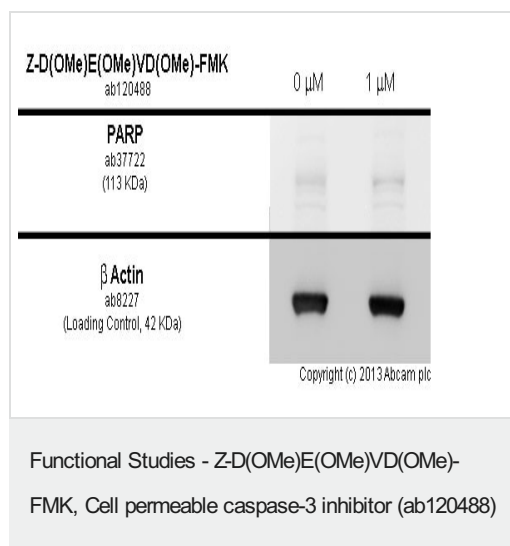
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Functional Studies		Use at an assay dependent concentration.

Images



2D chemical structure image of ab120488, Z-D(OMe)E(OMe)VD(OMe)-FMK, Cell permeable caspase-3 inhibitor



HeLa cells were incubated at 37 °C for 1h with vehicle control (0 μM) and different concentrations of Z-D(OMe)E(OMe)VD(OMe)-FMK (ab120488). After this incubation 10 μM of camptothecin (**ab120115**) was added to all samples and the cells were incubated for further 24h. Increased expression of full length PARP (**ab37722**) in camptothecin induced apoptotic HeLA cells correlates with an increase in Z-D(OMe)E(OMe)VD(OMe)-FMK concentration, as described in literature.

Whole cell lysates were prepared with RIPA buffer (containing protease inhibitors and sodium orthovanadate), 10 μg of each were loaded on the gel and the WB was run under reducing conditions. After transfer the membrane was blocked for an hour using 5% BSA before being incubated with **ab37722** at 1 μg/ml and **ab8227** at 1 μg /ml overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP (**ab97051**)

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