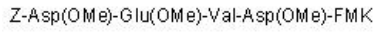
abcam

Product datasheet

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

2 References 2 图像

概述

产品名称	Z-D(OMe)E(OMe)VD(OMe)-FMK，Cell permeable caspase-3抑制剂
描述	Cell permeable caspase-3抑制剂
生物学描述	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编号	210344-95-9
化学结构	

性能

分子量	668.67
分子式	$C_{30}H_{41}FN_4O_{12}$
序列	DEVD (Modifications: N-terminal benzyloxycarbonyl; C-terminal FMK; Asp-1 = Asp(OMe); Glu-2 = Glu(OMe); Asp-4 = Asp(OMe))
PubChem识别号	16760394
存放说明	Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.
溶解度概述	Soluble in DMSO to 20 mM
处理	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	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

来源 Synthetic

应用

The Abpromise guarantee **Abpromise™承诺保证使用**ab120488**于以下的**经测试应用

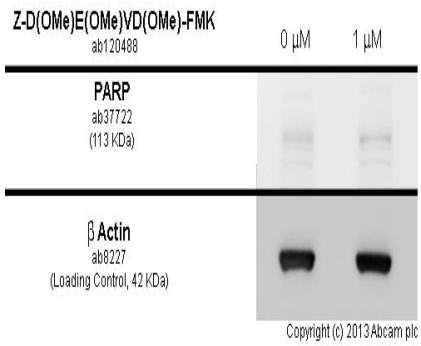
"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
Functional Studies		Use at an assay dependent concentration.

图片

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

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



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

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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