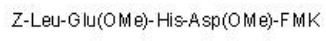
abcam

Product datasheet

Z-LEHD-FMK, caspase-9 inhibitor ab142026

5 References 3 Images

Overview

Product name	Z-LEHD-FMK, caspase-9 inhibitor
Description	Irreversible caspase-9 inhibitor
Purity	> 98%
General notes	This product is manufactured by BioVision, an Abcam company and was previously called 1074 Caspase-9 Inhibitor Z-LEHD-FMK. 1074-20C is the same size as the 20 µl size of ab142026.
CAS Number	210345-04-3
Chemical structure	

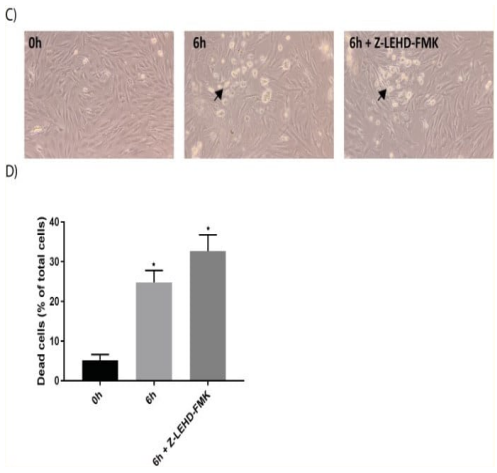
Properties

Molecular weight	690.70
Molecular formula	$C_{32}H_{43}FN_6O_{10}$
Sequence	LEHD (Modifications: N-terminal benzyloxycarbonyl; C-terminal FMK; Glu-2 = Glu(OMe); Asp-4 = Asp(OMe))
PubChem identifier	44135217
Storage instructions	Shipped at 4°C. Store at -20°C. Store under desiccating conditions.
Solubility overview	Supplied in DMSO (10 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. See SDS for further information. Need more advice on solubility, usage and handling? Please visit our **frequently asked questions (FAQ) page** for more details.
SMILES	CC(C)CC(C(=O)NC(CCC(=O)OC)C(=O)NC(CC1=CN=CN1)C(=O)NC(CC(=O)OC)C(=O)CF)NC(=O)OCC2=CC=CC=C2
Source	Synthetic

Images

Chemical Structure - Z-LEHD-FMK, caspase-9 inhibitor (ab142026)

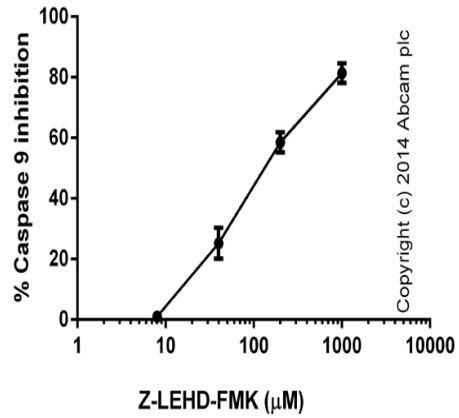
2D chemical structure image of ab142026, Z-LEHD-FMK, caspase-9 inhibitor



Cellular activation - Z-LEHD-FMK, caspase-9 inhibitor (ab142026)

Image from Beate Ronning S, et al. Plos One, 12(8), e0182928. Fig 6C and D,; doi: 10.1371/journal.pone.0182928

Differentiated muscle cells were pre-incubated with 20 µM Z-LEHD-FMK (irreversible caspas-9 inhibitor) for 30 min before exposure to anoxic conditions. C) Light microscopy pictures demonstrates morphological changes during anoxia treatment. Arrows indicate rounded up, dead cells. D) Live/dead analysis demonstrate increased number of dead cells during 6 h anoxia, but this is unaffected by the irreversible caspase-9 inhibitor.



Functional Studies - Z-LEHD-FMK, caspase-9 inhibitor (ab142026)

Functional assays: Caspase 9 Inhibitor Drug Detection Kit (ab102497)

Titration of the caspase 9 inhibitor Z-LEHD-FMK (ab142026) (duplicates; +/- SD).

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