

Product Datasheet

Boc-D(OMe)-FMK Inhibitor

NBP2-29395

Unit Size: 1 mg

Store at -20C. Avoid freeze-thaw cycles.

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NBP2-29395

Boc-D(OMe)-FMK Inhibitor

Product Information	
Unit Size	1 mg
Concentration	Concentration is not relevant for this product. Please see the protocols for proper use of this product.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Buffer	Form: White Semi-Solid Make a stock solution of 5, 10 or 20 mM in high purity DMSO (>99.9%). T
Product Description	
Immunogen	BOC-Asp (OMe)-CH ₂ F BOC-D(OMe)-FMK BOC-D-FMK
Preparation Method	Molecular Weight: 263 Formula: C ₁₁ H ₁₈ FNO ₅ Mass Spec: M+1=468.2 TLC: Single-Spot (EtOAc: Hexane, 3.7) : Rf:0.5 NMR: All functional groups are present
Inhibitor Family	Caspase
Product Application Details	
Applications	In vitro assay, In vivo assay, Block/Neutralize
Recommended Dilutions	In vitro assay, In vivo assay, Block/Neutralize
Application Notes	Use in blocking/ neutralizing reported in scientific literature (PMID 25096578) 1. This inhibitor is designed as a methyl ester to facilitate cell permeability. If the intended use is on purified or recombinant enzymes, esterase should be added to generate the free carboxyl groups. Please contact us for more details. 2. For in-vivo or in-vitro experiments extending longer than 12 hrs, fresh inhibitor may have to be added to culture medium or injected into animals.



Publications

Tomasella A, Blangy A, Brancolini C. A Receptor-interacting Protein 1 (Rip1) Independent Necrotic Death Under The Control Of Protein Phosphatase Pp2a That Involves The Reorganization Of Actin Cytoskeleton And The Action Of Cofilin-1. *J Biol Chem.* 2014-08-05 [PMID: 25096578] (B/N)

Details:

BOC-D(OMe)-fmk used as pan-caspase inhibitor at 50 uM concentration in experiments involving U87MG, U-118MG, HT29, IMR90-E1A/Bcl2/C9DN cells and U87MG/Bcl-xL cells.

Ryu Y, Hall CP, Reynolds CP, Kang MH. Caspase-dependent Mcl-1 cleavage and effect of Mcl-1 phosphorylation in ABT-737-induced apoptosis in human acute lymphoblastic leukemia cell lines. *Exp. Biol. Med. (Maywood).* 2014-06-20 [PMID: 24951472] (B/N, Human)

Details:

Fig 1a,b: Human acute lymphoblastic leukemia cell lines. Boc-D-FMK inhibited caspase-dependent Mcl-cleavage as measured by WB.

Caserta TM, Smith AN, Gultice AD et al. Q-VD-OPh, a broad spectrum caspase inhibitor with potent antiapoptotic properties. *Apoptosis.* 2003-08-01 [PMID: 12815277]

Details:

Inhibition of Actinomycin D or TGF beta induced apoptosis in WEHI 231 mouse cells, human Jurkat, or rat HRP-1 (trophoblast) cells: 1. BOC-D-FMK (IMI-2311): Fig 1 (gel analysis of DNA laddering) 2. Z-VAD-FMK (IMI-2310): Fig 1 (gel analysis of DNA laddering) 3. Q-VD-OPH (IMI-2309): Figs 1, 4, 5, 7 (gel analysis of DNA laddering), Figs 2, 3 (TUNEL assay by flow cytometry), Fig 6 (WB analysis of PARP cleavage), Fig 8 (WB analysis of Caspase-3, Caspase-8, and Caspase-9 cleavage) Note: Q-VD-OPH was extensively characterized in this publication and shown to inhibit the major features of apoptosis including caspase activation, DNA laddering, and caspase substrate cleavage.

Ontiveros SJ, Li Q, Jonsson CB. Modulation of apoptosis and immune signaling pathways by the Hantaan virus nucleocapsid protein. *Virology.* 2010-06-05 [PMID: 20227103]



Procedures

Product Handling - Assay Method (NBP2-29395)

Product Handling - Assay Method (NBP2-29395):

Materials:

Dissolve 1mg of BOC-D-FMK in DMSO to get appropriate concentration:

190 ul DMSO = 20mM

381 ul DMSO = 10 mM

762 ul DMSO = 5 mM

Method:

Add 2 ul of above stock solutions to 1 ml of culture medium containing cells to give final DMSO concentration of 0.2%. Levels of DMSO above this may cause some cellular toxicity thus masking the effect of the ICE-protease inhibitors. 2 ul of 10 mM stock in 1 ml medium = 20 uM final BOC-D-FMK concentration.





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Limitations

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