Product Datasheet

Z-IE(OMe)TD(OMe)-FMK (Caspase 8 Inhibitor) NBP2-29397

Unit Size: 1 mg

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

www.novusbio.com technical@novusbio.com

Publications: 1

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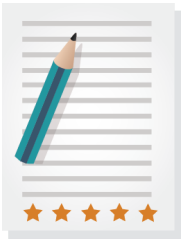

NBP2-29397

Z-IE(OMe)TD(OMe)-FMK (Caspase 8 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:Yellow solid Make a stock solution of 5, 10 or 20 mM in high purity DMSO (>99.9%).

Product Description

Immunogen	Z-Asp(OMe)-Glu(OMe)-Val-Asp(OMe)-FMK Z-D(OMe)E(OMe)VD(OMe)-FMK
Preparation Method	
Details of Functionality	Molecular Weight: 654 Formula: C30H43N4O11F Mass Spec: M+1=655.1 TLC: EtOAc: 100%, Rf:0.3 NMR: All functional groups are present
Inhibitor Family	Caspase
Inhibitor Target	Caspase 8

Product Application Details

Applications	In vitro assay, In vivo assay
Recommended Dilutions	In vitro assay, In vivo assay
Application Notes	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

Du Y, Taylor CG, Aukema HM, Zahradka P Regulation of docosahexaenoic acid-induced apoptosis of confluent endothelial cells: Contributions of MAPKs and caspases Biochimica et biophysica acta. Molecular and cell biology of lipids 2021-02-10 [PMID: 33578050]

Procedures

Product Handling - Assay Method (NBP2-29397)
Product Handling - Assay Method (NBP2-29397):
Materials:
Dissolve 5 mg of Z-IETD-FMK in DMSO to get appropriate concentration:
765 ml DMSO = 10 mM
383 ml DMSO = 20 mM
1530 ml DMSO = 5 mM

Method:
Add 2 ml 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 ml of 10 mM stock in 1 ml medium = 20 mM final Z-IETD-FMK concentration.

Novus Biologicals USA
10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada
21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd
19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information
www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Limitations
This product is for research use only and is not approved for use in humans or in clinical diagnosis. Inhibitors are guaranteed for 1 year from date of receipt.

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