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Product Information

Z-Ile-Glu(O-ME)-Thr-Asp(O-Me) fluoromethyl ketone

Catalog Number **C1230**
Storage Temperature –20 °C

Synonym: Z-IETD-FMK

Molecular Formula: $C_{30}H_{43}FN_4O_{11}$
Formula Weight: 654.68

Product Description
A cell-permeable inhibitor of caspase-8, which exhibits competitive and irreversible inhibition.

Purity: ≥90 % by TLC.

Precautions and Disclaimer
This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Preparation Instructions
Soluble in DMSO at 20 mM.

Dissolve 1mg of Z-Ile-Glu(OMe)-Thr-Asp(OMe)-FMK in 153 µl DMSO to yield a 10 mM stock solution.

Storage/Stability
Store tightly sealed and desiccated at –20 °C. Allow powder to reach room temperature before opening vial. May be stored desiccated in solid form at room temperature for one year. Store DMSO solutions at –20 °C for up to 6 months.

Procedure
Dilute from the stock solution into culture medium after cell pre-incubation/activation. Optimal inhibitor concentration is dependent upon cell type. An effective final concentration is estimated to be 5 to 100 µM. A 40 µM final concentration is made by adding 4 µl of a 10 mM stock solution to 1 ml culture medium. The researcher must determine the optimal incubation time. Ten to twenty minutes of inhibitor incubation is suggested.

This inhibitor is designed as a methyl ester to facilitate cell permeability. If the intended use is on purified or recombinant enzymes, an esterase should be added to generate the free carboxyl groups.

Note: Levels of DMSO above 0.2% may cause some cellular toxicity in culture medium, thus masking the effect of the inhibitor.

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