PRODUCT DATA SHEET

Product: Z-LEED-FMK (Caspase-13 Inhibitor)

Cat. No: **AB-021 (3 mg)**

Chemical Name:
Z-Leu-Glu(OMe)-Glu(OMe)-Asp(OMe)-CH2F

Molecular Weight: 696.5

Description:
Lyophilized solid. Peptide-fluoromethyl ketone inhibitor of Caspases-13.

The CH_2F (fluoromethyl ketone) inhibitor has several advantages over other types of derivatives: Penetrates cell membranes, Not toxic to cells, Irreversible inhibition.

Solubility:
Soluble in both DMSO.

Protocol:
Dissolve the Caspase-13 Inhibitor in DMSO before use. It is important that dry, good quality DMSO be used.

For use on intact cells:

1. Prepare desired concentrated stock solutions as follows-
   3 mg Z-LEED-FMK in 215 µl DMSO = 20 mM
   in 430 µl DMSO = 10 mM
   in 860 µl DMSO = 5 mM, etc.
2. Add 2 µl of above stock solution to 1 ml culture medium containing cells such that the final DMSO concentration is 0.2%. Levels of DMSO above this may cause some cellular toxicity, thus masking the effect of the Caspase-13 protease inhibitor. Adding 2 µl of a 10 mM stock solution to 1 ml of culture medium gives a final Z-LEED-FMK concentration of 20 µM. Typical final concentrations are 5 - 20 µM.

For extended use *in vivo* and *in vitro*:
For experiments extending 12 to 48 hours, fresh inhibitor may have to be added (injected) due to inactivation of the inhibitor by endogenous cysteine proteases.

Storage and Stability:
Store Caspase-13 Inhibitor **in a desiccator** at room temperature or +4°C. For long-term, +4°C is recommended. If stored dessicated, Z-LEED-FMK has a shelf life of at least 1 year. If stored at +4°C or -20 C, DMSO stock solutions have a shelf life of 1 year. Warm DMSO solutions to room temperature before opening to avoid contamination by water.

Limitations:
For research use only. Not for use in diagnostics or in humans.

Warranty:
No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.