PRODUCT DATA SHEET

Product: **BOC-D-FMK**

Cat. No.: **AB-015 (5 mg)**

Chemical Name:
BOC-Asp(OMe)-Fluoromethyl Ketone [BOC-D(OMe)-FMK].

Molecular Weight:
263

Description:
Peptide-fluoromethyl ketone inhibitor of caspases. BOC-D-FMK is a pan-caspase inhibitor.
The -CH_2F (fluoromethyl ketone) inhibitor has several advantages over other types of derivatives: Penetrates cell membranes, Not toxic to cells, Irreversible inhibition.

Specificity:
Binds irreversibly with and inhibits Caspase-1/ICE and Caspase-4.

Protocol:
Dissolve the BOC-D-FMK Inhibitor in DMSO before use.

For use on intact cells:

1. Prepare desired concentrated stock solutions as follows:
   1 mg BOC-D(OMe)-FMK
   in 190 µL DMSO = 20mM
   in 381 µL DMSO = 10 mM
   in 762 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 0.2% may cause some cellular toxicity, thus masking the effect of the BOC-D-FMK protease inhibitor. Adding 2 µL of a 10 mM stock solution to 1 mL of culture medium gives a final BOC-D-FMK concentration of 20 mM. Typical final concentrations are 5-20 mM.

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.

IMPORTANT NOTE for *in vitro* use: Our peptide inhibitors are synthesized as methyl esters to enhance cell permeability. In intact cells, the methyl groups are removed by endogenous enzymes. For in vitro experiments with purified enzymes, however, the methyl groups must first be removed by treating the inhibitor with esterase. A procedure is available upon request.

Storage:
Solid product is stable for 1 year when stored in a desiccator at room temperature. For long-term, 4°C is recommended. DMSO stock solutions have a shelf life of 6-8 months when stored at -20°C.

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.