PRODUCT DATA SHEET

BML-PI126 CA-074 Me
Cathepsin inhibitor

Potent and selective irreversible cell permeable cathepsin B inhibitor. Methyl ester (Me) is hydrolyzed by intracellular esterases releasing the active inhibitor. Prevents death of CA1 neurons after ischemia following IV delivery after the ischemic insult. In isolated rat osteoclasts it inhibited bone resorption with a maximal effect at 50 µM. This product is only suitable for in vivo and whole cell experiments. The free acid form must be used for in vitro experiments. Can be used to discriminate between cathepsin B and L/S forms.

Product Specifications

Alternative Name: N-(L-3-trans-Propylcarbonyl-oixirane-2-carbonyl)-L-isoleucyl-L-proline methyl ester
FORMULA: C_{19}H_{31}N_{5}O_{6}
MW: 397.5
PURITY: ≥99%
APPEARANCE: White solid
SEQUENCE: N-(L-3-trans-Propylcarbonyl-oixirane-2-carbonyl)-L-isoleucyl-L-proline methyl ester
SOLUBILITY: Soluble in DMSO
LONG TERM STORAGE: -20°C

Product Literature References


Fluorometric microarrays for the determination of cathepsin L and cathepsin S activities in tissue extracts B. Werle et al. Biol. Chem. 380 1109 (1999)


Background/Technical Information

Please click here for the comprehensive product datasheet.

Revised 22-Feb-12

WARNING: THIS PRODUCT IS NOT INTENDED OR APPROVED FOR HUMAN, DIAGNOSTICS OR VETERINARY USE. USE OF THIS PRODUCT FOR HUMAN OR ANIMAL TESTING IS EXTREMELY HAZARDOUS AND MAY RESULT IN DISEASE, SEVERE INJURY, OR DEATH.

MATERIAL SAFETY DATA: This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet.

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