

Catalog	Unit
TBI3079 - 1MG	1 mg
TBI3079 - 5MG	5 mg

Product Details

Alternate Names: Z-FY-CHO; Z-Phe-Tyr-Aldehyde; SB-412515

Molecular Formula: C₂₆H₂₆N₂O₅

Formula Weight: 446.50

CAS Number: 167498-29-5

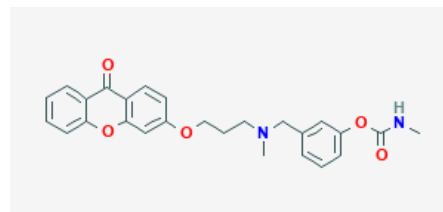
Purity: >98%

Formulation: Powder

Solubility: Soluble in DMSO (up to 30 mg/ml) or in Ethanol (up to 50 mg/ml).

Storage: -20°C

Stability: ≥ 2 years.



Applications

Cathepsin L inhibitor

Functions

A potent and selective inhibitor of cathepsin L, IC₅₀ = 0.85 nM selective over cathepsin B and calpain II (IC₅₀s = 85.1 and 184 nM respectively). Suppresses osteoclastic pit formation at 1.5 nM and markedly inhibited parathyroid hormone-stimulated osteoclastic bone resorption. Also inhibits cathepsin K (K_is = 0.052 and 1.57 nM for cat L and cat K respectively) and partially provides the basis for the finding that cathepsin K is the protease responsible for osteoclastic bone resorption. Provides partial protection against serum and potassium deprivation-induced neuronal death. Active in vivo.

Application Procedures

First dissolved in DMSO (up to 30 mg/ml) or in ethanol (up to 50 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

Relative Products

TBI1170	Mitomycin C
TBI1345	E64, Cysteine protease inhibitor
TBI1347	E64d, Cysteine protease inhibitor
TBI2064	Chromomycin A3
TBI2069	Cytochalasin B
TBI2794	5-EDU, DNA Click labeling probe
TBI2071	Cytochalasin D
TBI1286	Bestatin, Aminopeptidase inhibitor
TBI2140	Gemcitabine
TBI2058	Aphidicolin, DNA polymerase Inhibitor

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