

Catalog	Unit
TBI1345-5MG	5 mg
TBI1345-25MG	25 mg

Product Details

Formal Name: (2S,3S)-trans-Epoxy succinyl-L-leucylamido-(4-guanidino) butane

Molecular Formula: C₁₅H₂₇N₅O₅

Formula Weight: 357.41

CAS Number: 66701-25-5

Purity: ≥98%

Formulation: Powder

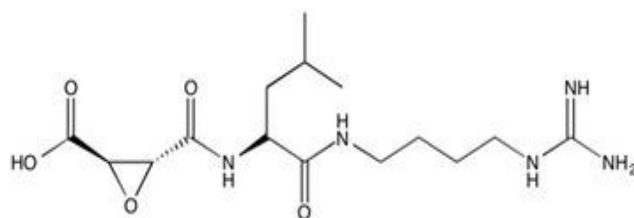
Solubility: Soluble in a 1:1 mixture of ethanol and water (20 mg/ml) or DMSO (25 mg/ml)

Storage: -20°C

Stability: ≥ 1 year

Applications

Cysteine protease inhibitor.



Functions

Cell-permeable, epoxysuccinyl peptide irreversible inhibitor of calpain and other cysteine proteases. Inhibits calpain-dependent apoptosis pathway in T cells but promotes heat-induced apoptosis in FM3A cells. Typical working concentration is 0.5-10 µg/ml.

Application Procedures

First dissolved in 1:1 mixture of ethanol and water (20 mg/ml) or DMSO (25 mg/ml), then diluted to aqueous buffer. Solutions in 1:1 ethanol/water or DMSO may be stored at -20°C for up to 1 month.

Relative Products

TBI2614	ZVAD-FMK, Pan-caspase inhibitor
TBI2069	Cytochalasin B
TBI2078	Ionomycin calcium, Ca ²⁺ Ionophore
TBI1286	Bestatin, Aminopeptidase inhibitor
TBI1029	Dorsomorphin, AMPK inhibitor
TBI1368	Pepstatin, Aspartic protease inhibitor
TBI1060	Imatinib, Bromodomain inhibitor
TBI1584	JQ1+, Bromodomain inhibitor
TBI2284	Calcimycin, Ca ²⁺ Ionophore

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