

Catalog	Unit
TBI1309-5MG	5 mg
TBI1309-25MG	25 mg

Product Details

Formal Name: N-(Benzyloxycarbonyl)leucinylleucinylleucinal

Alternate Names: Z-Leu-Leu-Leu-CHO

Molecular Formula: C₂₆H₄₁N₃O₅

Formula Weight: 475.63

CAS Number: 133407-82-6

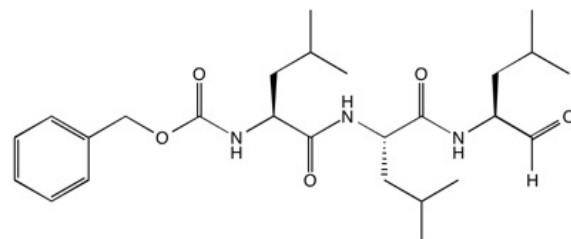
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 45 mg/ml), in DMF (up to 45 mg/ml), or in Ethanol (up to 45 mg/ml).

Storage: -20°C

Stability: ≥ 2 years.



Applications

Proteasome inhibitor

Functions

Specific inhibitor of the chymotrypsin-like activity of the 20S proteasome (IC₅₀=100 nM with Z-LLL-AMC as substrate). Also inhibits calpain (IC₅₀=1.25 μM) Suppresses gastric cancer cell proliferation and induces macro-autophagy. Activates stress kinases and induces Hsp72. Induces neurite outgrowth. Blocks NFκB activation by blocking IκB proteolysis (IC₅₀=3 μM). Cell permeable.

Application Procedures

First dissolved in DMSO (up to 45 mg/ml), in DMF (up to 45 mg/ml), or in Ethanol (up to 45 mg/ml), then diluted to aqueous buffer. Solutions in DMSO, DMF or ethanol may be stored at -20° for up to 1 week.

For research use only.