

Catalog	Unit
TBI3498- 1MG	1 mg
TBI3498- 5MG	5 mg

Product Details

Formal Name: (5S,8R,9R)-4-propan-2-ylidene-10-oxatricyclo[7.2.1.0^{1,5}]dodecane-8-carboperoxoic acid

Molecular Formula: C₁₅H₂₂O₄

Formula Weight: 266.33

CAS Number: 67309-95-9

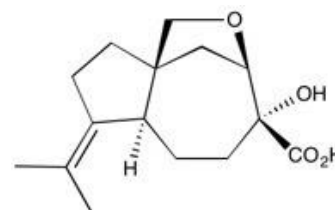
Purity: 98%

Formulation: Powder

Solubility: Soluble in DMSO

Storage: -20°C

Stability: ≥ 2 years.



Applications

Plant growth inhibitor

Functions

Aspterric acid (67309-95-9) is a fungal sesquiterpenoid plant growth inhibitor discovered using a resistance-gene-directed approach. It is an inhibitor of dihydroxy-acid dehydratase (DHAD, IC₅₀ = 0.31 and 0.5 μM for AteDHAD and AthDHAD respectively), an enzyme in the branched-chain amino acid biosynthetic pathway in plants and is an effective herbicide in spray applications. It has no significant cytotoxicity in human cell lines (up to 500 μM). Inhibits the development of pollen in Arabidopsis thaliana.

Application Procedures

First dissolved in DMSO, then diluted to aqueous buffer. Solutions in DMSO 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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