

## Homoharringtonine, Protein synthesis inhibitor

Catalog	Unit
TBI3033-5MG	5 mg
TBI3033-25MG	25 mg

### Product Details

**Formal Name:** Cephalotaxine 4-methyl (2R)-2-hydroxy-2-(4-hydroxy-4-methylpentyl)butanedioate

**Alternate Names:** HHT; NSC 141633; Omacetaxine mepesuccinate

**Molecular Formula:** C<sub>29</sub>H<sub>39</sub>NO<sub>9</sub>

**Formula Weight:** 545.60

**CAS Number:** 26833-87-4

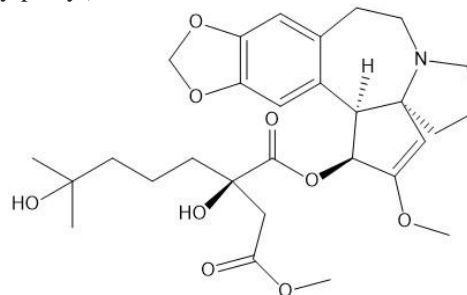
**Purity:** >98%

**Formulation:** powder

**Solubility:** Soluble in DMSO (up to 75 mg/ml)

**Storage:** -20°C

**Stability:** ≥ 2 years.



### Applications

Protein synthesis inhibitor

### Functions

Homoharringtonine is a plant alkaloid, originally isolated from the Hainan plum yew, that binds to the large ribosomal subunit A-site, competing with aminoacyl-tRNA amino acid side chains, thereby inhibiting the initial elongation step of protein synthesis. It also binds to transcription factors NKRF (NF-κB repressing factor) and SP1, down-regulating the Myc pathway. Dramatically decreases global DNA 5-hydroxymethylcytosine levels via the SP1/TET1 axis. Induces apoptosis in tyrosine kinase inhibitor-resistant NSCLC cells, and is a clinically useful agent for CML and AML.

### Application Procedures

First dissolved in DMSO (up to 75 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

**For research use only.**