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DATASHEET

Homoharringtonine

Product overview

Name	Homoharringtonine
Cat No	HB4660
Alternative names	HHT Omacetaxine mepesuccinate
Biological action	Inhibitor
Purity	>98%
Description	Protein synthesis inhibitor

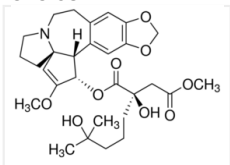
Biological Data

Biological description	Protein synthesis inhibitor which prevents substrate binding to the acceptor site on the 60S ribosome subunit to inhibit the elongation phase of translation. Shows antileukemic and antitumor activity. Active <i>in vivo</i> . Inhibits SARS-Cov2 (EC ₅₀ = 2.1 μM).
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Solubility & Handling

Storage instructions	+4 °C
Solubility overview	Soluble in DMSO (100mM) and in ethanol (50mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	Cephalotaxine 4-methyl (2 <i>R</i>)-2-hydroxy-2-(4-hydroxy-4-methylpentyl)butanedioate
Molecular Weight	545.63
Chemical structure	
Molecular Formula	C ₂₉ H ₃₉ NO ₉
CAS Number	26833-87-4
PubChem identifier	285033
SMILES	<chem>CC(C)(CCC[C@@](C(=O)OC)(C(=O)O[C@H]1[C@H]2C3=CC4=C(C=C3CCN5[C@@]2(CCC5)C=C1OC)OCO4)O)O</chem>
InChi	InChI=1S/C29H39NO9/c1-27(2,33)8-5-10-29(34,16-23(31)36-4)26(32)39-25-22(35-3)15-28-9-6-11-30(28)12-7-18-13-20-21(38-17-37-20)14-19(18)24(25)28/h13-15,24-25,33-34H,5-12,16-17H2,1-4H3/t24-,25-,28+,29-/m1/s1
InChiKey	HYFHYPWGAURHIV-JFIAXGOJSA-N
MDL number	MFCD03410264
Appearance	White solid

References

Remdesivir, lopinavir, emetine, and homoharringtonine inhibit SARS-CoV-2 replication in vitro

Choy et al (2020) Antiviral Res. 178

PubMedID [32251767](#)

Inhibition of translation in eukaryotic systems by harringtonine

Fresno et al (1977) Eur J Biochem. 72(2)

PubMedID [319998](#)

Homoharringtonine: an effective new natural product in cancer chemotherapy

Zhou et al (1995) Bull Cancer. 82(12)

PubMedID [8745664](#)
