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DATASHEET

Artesunate

Product overview

Name	Artesunate
Cat No	HB0122
Alternative names	ARS
Biological action	Other
Purity	>98%
Description	Semi-synthetic, water soluble Artemisinin derivative

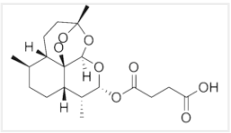
Biological Data

Biological description	Semi-synthetic, water soluble Artemisinin derivative. Inhibits vascular endothelial proliferation (IC_{50} = 25 µM) and activates p38 MAPK. Displays antimalarial, antiangiogenic, antiviral and anticancer properties.

Solubility & Handling

Storage instructions	+4°C
Solubility overview	Soluble in DMSO (25mg/ml) or ethanol (25mg/ml)
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

Molecular Weight	384.4
Chemical structure	
Molecular Formula	$C_{19}H_{28}O_8$
CAS Number	88495-63-0
PubChem identifier	16394563
SMILES	C[C@@H]1CC[C@H]2[C@@H](C)[C@H](O[C@@H]3OC4(C)CC[C@@H]1[C@@]23OO4)OC(=O)CCC(O)=O
InChi	1S/C19H28O8/c1-10-4-5-13-11(2)16(23-15(22)7-6-14(20)21)24-17-19(13)12(10)8-9-18(3,25-17)26-27-19/h10-13,16-17H,4-9H2,1-3H3,(H,20,21)/t10-,11-,12+,13+,16+,17-,18?,19-/m1/s1
Appearance	white solid

References

Safety and efficacy field study of artesunate for dogs with non-resectable tumours.

Rutteman GR *et al* (2013) Anticancer Res 33(5)
PubMedID 23645726

The artemisinin derivative artesunate inhibits corneal neovascularization by inducing ROS-dependent apoptosis in vascular

endothelial cells.

Cheng R *et al* (2013) Invest Ophthalmol Vis Sci 54(5)
PubMedID 23611999

The antiviral activities of artemisinin and artesunate.

Efferth T *et al* (2008) Clin Infect Dis 47(6)
PubMedID 18699744

Supergenomic network compression and the discovery of EXP1 as a glutathione transferase inhibited by artesunate.

Lisewski AM *et al* (2014) Cell 158(4)
PubMedID 25126794