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DATASHEET

Minocycline hydrochloride

Product overview

Name	Minocycline hydrochloride
Cat No	HB4617
Alternative names	MC
Purity	>98%
Description	Broad spectrum antibiotic. Potent microglial activation inhibitor. Allows formation of EPSs.

Biological Data

Biological description	Broad spectrum, blood-brain barrier permeable tetracycline antibiotic. Shows a variety of effects including anti-inflammatory, anti-angiogenesis and neuroprotective and neurorestorative effects <i>in vivo</i> . Potently inhibits microglial activation. Shown to suppress activation of human and mouse microglia stimulated with A β . Also allows formation of extended pluripotent stem (EPS) cells.
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Solubility & Handling

Storage instructions	+4 °C
Solubility overview	Soluble in DMSO (100 mM) and water (25 mM)
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	[4S-(4 α ,4 α ,5 α ,12 α)]-4,7-Bis(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,10,12,12a,tetrahydroxy-1,11-dioxo-2-naphthacene-carboxamide
Molecular Weight	493.94
Chemical structure	
Molecular Formula	C ₂₃ H ₂₇ N ₃ O ₇ .HCl
CAS Number	13614-98-7
PubChem identifier	54685925
SMILES	CN(C)[C@H]1[C@@H]2C[C@@H]3CC4=C(C=CC(=C4C(=C3C(=O)[C@@]2(C=C(C1=O)C(=O)N)O)O)O)N(C)C.Cl
InChiKey	WTJXVDPDEQKTCV-VQAITOIOSA-N
MDL number	MFCD00083669
Appearance	Yellow
