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## DATASHEET

### Minocycline hydrochloride

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#### Product overview

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

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#### Biological Data

<b>Biological description</b>	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 $\beta$ . Also allows formation of extended pluripotent stem (EPS) cells.
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#### Solubility & Handling

<b>Storage instructions</b>	+4 °C
<b>Solubility overview</b>	Soluble in DMSO (100 mM) and water (25 mM)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

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#### Chemical Data

<b>Chemical name</b>	[4S-(4 $\alpha$ ,4 $\alpha$ ,5 $\alpha$ ,12 $\alpha$ )]-4,7-Bis(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,10,12,12a,tetrahydroxy-1,11-dioxo-2-naphthacene-carboxamide
<b>Molecular Weight</b>	493.94
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>23</sub> H <sub>27</sub> N <sub>3</sub> O <sub>7</sub> .HCl
<b>CAS Number</b>	13614-98-7
<b>PubChem identifier</b>	54685925
<b>SMILES</b>	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
<b>InChiKey</b>	WTJXVDPDEQKTCV-VQAITOIOSA-N
<b>MDL number</b>	MFCD00083669
<b>Appearance</b>	Yellow

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