



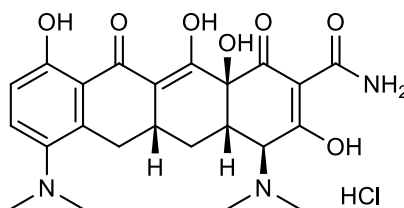
Catalog # 10-2568

Minocycline HCl

13614-98-7

[4S-(4 α ,4a α ,5a α ,12a α)]-4,7-Bis(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,10,12,12a,tetrahydroxy-1,11-dioxo-2-naphthacenecarboxamide hydrochloride

Lot # X103625



Displays antiapoptotic, anti-inflammatory¹ activity. Prevents neuropathic pain in a rat sciatic nerve injury model¹. Reduces MMP-9 activity². Attenuates disease severity in mouse models of multiple sclerosis³. Displays neuroprotective activity⁴. May be effective in methotrexate-induced lung fibrosis⁵. Orally active and brain penetrant.

- 1) Padi and Kulkarni (2008), *Minocycline prevents the development of neuropathic pain, but not acute pain: possible anti-inflammatory and antioxidant mechanisms*; Eur. J. Pharmacol., **601** 79
- 2) Dziembowska et al. (2013), *High MMP-9 activity levels in fragile X syndrome are lowered by minocycline*; Am. J. Med. Genet. A, **161A** 1897
- 3) Brundula et al. (2002), *Targeting leukocyte MMPs and transmigration: minocycline as a potential therapy for multiple sclerosis*; Brain., **125** 1297
- 4) Tikka et al. (2001), *Minocycline, a tetracycline derivative, is neuroprotective against excitotoxicity by inhibiting activation and proliferation of microglia*; J. Neurosci., **21** 2580
- 5) Kalemci et al. (2013), *The efficacy of minocycline against methotrexate-induced pulmonary fibrosis in mice*; Eur. Rev. Med. Pharmacol. Sci., **17** 3334

PHYSICAL DATA

Molecular Weight:	493.95
Molecular Formula:	C ₂₃ H ₂₇ N ₃ O ₇ · HCl
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 50 mg/ml) or in Water (10 mg/ml)
Physical Description:	Yellow solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO or distilled water may be stored at -20°C for up to 1 month.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

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