

DATA SHEET

Product Name: Minocycline HCl

Catalog #: N-3013

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

Source: Synthetic

Molecular Mass: 493.9 C₂₃H₂₇N₃O₇ • HCl

Analysis: >98% (TLC); NMR (Conforms)

Supplied As: Yellow powder

Resuspension: May be dissolved in DMSO (50 mg/ml): or water (10 mg/ml)

Storage: Store desiccated as supplied at -20°C for up to 2 years. Store solutions at -20°C for up to 1 month.

Description: 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.

References:

1. Padi, S.S., and Kulkarni, S.K., (2008) Eur. J. Pharmacol., *601*: 79
2. Dziembowska, M., et al., (2013) Am. J. Med. Genet. *A, 161A*: 1897
3. Brundula, V., et al., (2002) Brain, *125*: 1297
4. Tikka, T., et al., (2001) J. Neurosci., *21*: 2580
5. Kalemci, S., et al., (2013) Eur. Rev. Med. Pharmacol. Sci., *17*: 3334

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