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**Product Data Sheet**

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Product Name: Morantel tartrate

Cat. No.: GC32285

**Chemical Properties**

Cas. No. 26155-31-7

SMILES CC1=C(/C=C/C2=NCCCN2C)SC=C1.O=C(O)[C@H](O)[C@@H](O)C(O)=OFormula  $C_{16}H_{22}N_2O_6S$  M.Wt 370.42

Solubility DMSO: 125 mg/mL (337.45 mM) Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available sizes: ship with RT, or blue ice upon request.

Structure **Background**

Morantel is a positive allosteric modulator of neuronal nicotinic acetylcholine receptors (nAChRs).<sup>1</sup> It enhances channel gating of the  $\alpha 3\beta 2$  nAChR subtype by binding to non-canonical sites.<sup>2</sup> Formulations containing morantel are used to treat nematode infections in livestock.<sup>3</sup>

1. Wu, T.Y., Smith, C.M., Sine, S.M., et al. Morantel allosterically enhances channel gating of neuronal nicotinic acetylcholine  $\alpha 3\beta 2$  receptors. *Mol. Pharmacol.* 74(2):466-475 (2008)  
2. Seo, S., Henry, J.T., Lewis, A.H., et al. The positive allosteric modulator morantel binds at noncanonical subunit interfaces of neuronal nicotinic acetylcholine receptors. *J. Neurosci.* 29(27):8734-8742 (2009)  
3. McKellar, Q.A., Scott, E.W., Baxter, P., et al. Pharmacodynamics, pharmacokinetics and faecal persistence of morantel in cattle and goats. *Vet. Pharmacol. Ther.* 16(1):87-92 (1993)

**Caution: Product has not been fully validated for medical applications. For research use only.**

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