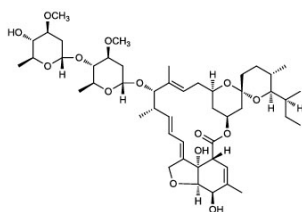


Ivermectin (5 g)

Catalogue No.:	PE-1844-5
Description:	Pharmacology: A specific inhibitor of importin alpha/beta-mediated nuclear import with no effect on a range of other nuclear import pathways (1). Displays potent antiviral activity against HIV-1, dengue (1), corona (2) and other viruses. Clinically useful broad-spectrum antiparasitic agent (3). PubChem CID: 6321424.
	Product is sold for research use only. Not for human therapeutic use or for medicinal purposes.
Batch No.:	See product label.
Unit size:	5 g
Other Names:	Ivermectin B1a; Dihydroavermectin B1a; CAS 70288-86-7
Molecular Weight:	875.1 g/mol. Molecular Formula: C ₄₈ H ₇₄ O ₁₄ (B1a form)
Compound Name:	(1R,4S,5'S,6R,6'R,8R,10E,12S,13S,14E,16E,20R,21R,24S)-6'-[(2S)-butan-2-yl]-21,24-dihydroxy-12-[(2R,4S,5S,6S)-5-[(2S,4S,5S,6S)-5-hydroxy-4-methoxy-6-methyloxan-2-yl]oxy-4-methoxy-6-methyloxan-2-yl]oxy-5',11,13,22-tetramethylspiro[3,7,19-trioxatetracyclo[15.6.1.14,8.020,24]pentacos-10,14,16,22-tetraene-6,2'-oxane]-2-one
Purity:	>98% (TLC); NMR (Conforms) Contains up to 10% B1b form.
Biol. activity:	Positive allosteric modulator of the alpha-7 neuronal nicotinic acetylcholine receptor and the purinergic P2X4 receptor. Anthelmintic. Also modulates glutamate- and GABA-activated chloride channels. Potentiates glycine-gated currents at low concentrations (30 nM).
Applications:	Biochemical inhibition.
Appearance:	Dry, white powder.
Reconstitution:	Soluble in DMSO. May be dissolved in DMSO up to 40 mg/mL.
Storage:	Store desiccated as supplied at -20C for up to 2 years. Store solutions at -20C for up to 1 month. Prevent multiple freeze-thaw cycles.
Expiry Date:	See storage conditions.
General References:	<ol style="list-style-type: none"> 1. KM Wagstaff et al. Biochem. J. 2012 443:851 2. L Caly et al. Antiviral Res. 2020 104787 3. EA Ottesen and WC Campbell J. Antimicrob. Chemother. 1994 34:195
MSDS:	Please refer to our online product listing for current protocol/MSDS versions.



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