

Product Data Sheet

Product Name: Avermectin B1a aglycone

Cat. No.: GC42881

Chemical Properties

Cas. No. 71828-14-3

SMILES C/C([C@@H](O)[C@@H](C)/C=C/C=C(CO1)/[C@@]([C@@]1([H])[C@H](O)C(C)=C2)(O)[C@]2([H])C3=O)=C\C[C@]4([H])C[C@@](O3)([H])C[C@]5(C=C[C@H](C)[C@]([C@@H](C)CC)([H])O5)O4

Formula C₃₄H₄₈O₈ M.Wt 584.7

Solubility Soluble in DMSO 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 size: ship with RT , or blue ice upon request.

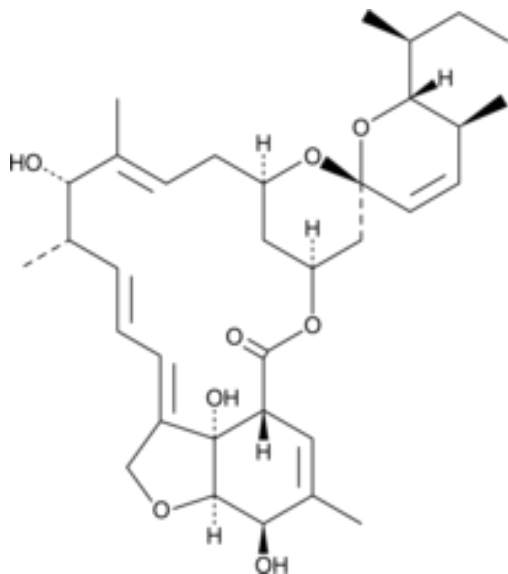
Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

Structure



Background

Avermectin B1a aglycone is an aglycone form of the anthelmintic and insecticide avermectin B1a. It hyperpolarizes *P. crassipes* muscle fibers with a minimum active concentration (MAC) value of 0.1 μ M. Avermectin B1a aglycone decreases survival of *C. elegans* (MAC = 0.1 μ M). In vivo, avermectin B1a aglycone prevents seizures induced by pentylenetetrazole in mice (ED₅₀ = 43.9 mg/kg) without inducing deficits in rotarod performance.

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