

PF 1022A

Catalog No: tcsc3377



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

133413-70-4

Formula:

$C_{52}H_{76}N_4O_{12}$

Pathway:

Anti-infection

Target:

Parasite

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 43 mg/mL (45.30 mM)

Observed Molecular Weight:

949.18

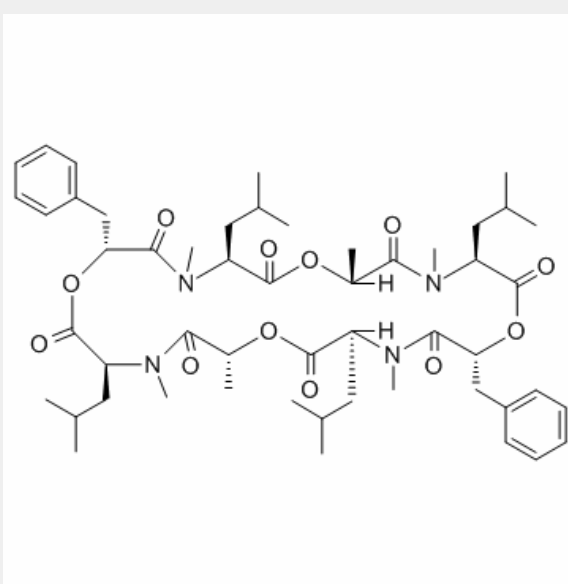
Product Description

PF 1022A is a N-methylated cyclooctadepsipeptides (CODPs) with strong anthelmintic properties; acts as an ionophore.

IC50 value:

Target:

PF 1022A showed strong anthelmintic activities against *Ascaridia galli* in chickens [1]. PF1022A is a novel anthelmintic that binds to the latrophilin-like transmembrane receptor important for pharyngeal pumping in nematodes. Furthermore, PF1022A binds to GABA receptors, which might contribute to the anthelmintic effect. Like other cyclodepsipeptides, PF1022A acts as an ionophore [2]. In vitro, PF1022A showed low activity on embryonation but significantly inhibited egg hatch (10 and 100 µg/ml), whereas albendazole (10 and 100 µg/ml) revealed statistically significant inhibitions of both embryonation and egg hatch. PF1022A (1-100 µg/ml) completely inhibited larval movement at most examination points [3].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!