Data Sheet (Cat.No.T80083)

TargetMol

Zilucoplan TFA

Chemical Properties

CAS No. :

Formula: (C2H4O)nC126H186N24O32.C2HF3O2

Molecular Weight:

Storage: Keep away from moisture
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Zilucoplan TFA (RA101495), a 15-amino acid macrocyclic peptide, is a potent inhibitor of complement component 5 (C5) with applications in studying immune-mediated necrotising myopathy (IMNM) [1] [2].
Targets(IC50)	Complement System
In vitro	Zilucoplan (RA101495; 1-1000 nM; 30 min) suppresses the lipopolysaccharide-induced increase in C5a plasma levels in human whole blood, with an IC50 of 474.5 pM, and achieves a 65.7% reduction at 1 nM [2]. It binds to complement component 5 (C5), inhibiting its cleavage into C5a and C5b and preventing C5b's interaction with C6, thereby obstructing the formation of the membrane attack complex (MAC; C5b-9) and subsequent cell lysis [1].
In vivo	Zilucoplan (RA101495; 10 mg/kg; S.C.; daily for 6 days) effectively inhibits the onset of immune-mediated necrotising myopathy (IMNM) in C5-deficient mice treated with human complement and provides protection against myopathy in C57BL/6 mice [1].

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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