

SMA-12b

Chemical Properties

CAS No. : 1496553-39-9

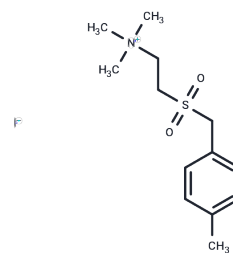
Formula: C₁₃H₂₂INO₂S

Molecular Weight: 383.29

Keep away from moisture

Storage: 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	SMA-12b is an analog of the immunomodulatory parasite product ES-62 that has immunomodulatory activity, can modify the expression of many inflammatory response genes, increase the expression of many genes related to antioxidant responses, and can be used in the study of rheumatoid arthritis (RA) and other autoimmune diseases.
Targets(IC50)	Interleukin
In vivo	Collagen-induced arthritis (CIA) was induced in male DBA/1 mice (8-10 weeks old) by intradermal immunization with bovine type II collagen in complete Freund's adjuvant and mice were treated with purified endotoxin-free SMA-12b (1 µg/dose) or PBS subcutaneously on days -2, 0 and 21 and scored for development of arthritis as previously described. SMA-12b could also significantly reduce IL-12p40 secretion, it was not as effective with respect to IL-6. [1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.609 mL	13.045 mL	26.0899 mL
5 mM	0.5218 mL	2.609 mL	5.218 mL
10 mM	0.2609 mL	1.3045 mL	2.609 mL
50 mM	0.0522 mL	0.2609 mL	0.5218 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Rzepecka J, et al. Prophylactic and therapeutic treatment with a synthetic analogue of a parasitic worm product prevents experimental arthritis and inhibits IL-1 β production via NRF2-mediated counter-regulation of the inflammasome. J Autoimmun. 2015 Jun;60:59-73.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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