

RORyt inverse agonist 14

Chemical Properties

CAS No. :	2672496-70-5
Formula:	C ₂₆ H ₂₆ F ₈ N ₂ O ₆ S ₂
Molecular Weight:	678.61
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	RORyt inverse agonist 14 (8e) is a potent, selective, and orally active compound with an EC ₅₀ of 2.5 nM, demonstrating anti-inflammatory activity. It is utilized in the research of rheumatoid arthritis and psoriasis [1].
Targets(IC ₅₀)	ROR
In vivo	RORyt inverse agonist 14 (8e) exhibits a half-life (t _{1/2}) of 11 hours following intravenous (iv) injection at 1 mg/kg. When administered orally at 4 mg/kg in mice, the compound achieves a peak concentration (t _{max}) in 2 hours, with an oral bioavailability (%F) of 101 [1]. Additionally, dosages ranging from 5 to 20 mg/kg effectively reduce arthritic scores, comparable to the murine analog of the commercially available TNF decoy receptor, etanercept [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4736 mL	7.368 mL	14.736 mL
5 mM	0.2947 mL	1.4736 mL	2.9472 mL
10 mM	0.1474 mL	0.7368 mL	1.4736 mL
50 mM	0.0295 mL	0.1474 mL	0.2947 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.

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