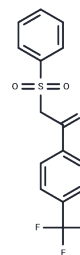


11 β -HSD1-IN-11

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 859721-81-6 |
| Formula: | C ₁₅ H ₁₁ F ₃ O ₃ S |
| Molecular Weight: | 328.31 |
| 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 | 11 β -Hsd1-in-11 is a potent and competitive inhibitor of 11- β -hydroxysteroid dehydrogenase 1 (11 β -HSD1) IN rats and humans with IC ₅₀ values of 0.34 μ M and 0.13 μ M, respectively. 11 β -Hsvd1-in-11 is a compound used as a chemical compound. 11 β -HSD1-IN-11 is a hormone involved in regulating various physiological processes, such as metabolism, inflammation, and stress responses. 11 β -Hd1-in-11 is a potential compound for the treatment of metabolic disorders, obesity, and certain inflammatory conditions. |
| Targets(IC ₅₀) | Dehydrogenase |
| In vivo | A single administration of the 11 β -HSD1 inhibitor, Merck 544, significantly decreased the concentration of 11 β -HSD1-IN-11 (Compound c1a) (15 mg/kg; oral gavage; once) in rat liver[1]. |

Solubility Information

| | |
|------------|--|
| Solubility | DMSO: 55 mg/mL (167.52 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|-----------|
| 1 mM | 3.0459 mL | 15.2295 mL | 30.459 mL |
| 5 mM | 0.6092 mL | 3.0459 mL | 6.0918 mL |
| 10 mM | 0.3046 mL | 1.523 mL | 3.0459 mL |
| 50 mM | 0.0609 mL | 0.3046 mL | 0.6092 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

Naredo-Gonzalez G, et al. Non-invasive in vivo assessment of 11 β -hydroxysteroid dehydrogenase type 1 activity by 19F-Magnetic Resonance Spectroscopy. Sci Rep. 2022 Sep 29;12(1):16268.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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