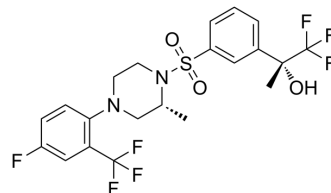


HSD-016

| | | | |
|---------------------------|--|-------|----------|
| Cat. No.: | HY-122028 | | |
| CAS No.: | 946396-92-5 | | |
| Molecular Formula: | C ₂₁ H ₂₁ F ₇ N ₂ O ₃ S | | |
| Molecular Weight: | 514.46 | | |
| Target: | 11β-HSD | | |
| Pathway: | Metabolic Enzyme/Protease | | |
| Storage: | Powder | -20°C | 3 years |
| | | 4°C | 2 years |
| | In solvent | -80°C | 6 months |
| | | -20°C | 1 month |



SOLVENT & SOLUBILITY

| | | | | | | |
|---|---|----------------------|-------------|-------------|-------------|--------------|
| In Vitro | DMSO : 100 mg/mL (194.38 mM; Need ultrasonic) | | | | | |
| | | Solvent | Mass | 1 mg | 5 mg | 10 mg |
| | Preparing Stock Solutions | Concentration | | | | |
| | | 1 mM | | 1.9438 mL | 9.7189 mL | 19.4379 mL |
| 5 mM | | | 0.3888 mL | 1.9438 mL | 3.8876 mL | |
| | 10 mM | | 0.1944 mL | 0.9719 mL | 1.9438 mL | |
| Please refer to the solubility information to select the appropriate solvent. | | | | | | |
| In Vivo | <ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (4.86 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.86 mM); Clear solution | | | | | |

BIOLOGICAL ACTIVITY

| | |
|-------------------------------------|---|
| Description | HSD-016 is a potent, selective and orally active 11β-hydroxysteroid dehydrogenase type 1 (11β-HSD1) inhibitor with IC ₅₀ values of 11, 1 and 8 nM against human, mouse and rat 11β-HSD1, respectively. HSD-016 can be used for type 2 diabetes research ^[1] . |
| IC₅₀ & Target | IC ₅₀ : 1 nM (mouse 11β-HSD1), 8 nM (rat 11β-HSD1), 11 nM (human 11β-HSD1) ^[1] |

REFERENCES

Caution: Product has not been fully validated for medical applications. For research use only.

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