

Product Datasheet

SKI2852

Catalog No. **BP-02187** · CAS **1346554-47-9** · Form **free base** · Physical state **solid** · Color **White to off-white** · Version **1.0** · Revision **2026-09-07**

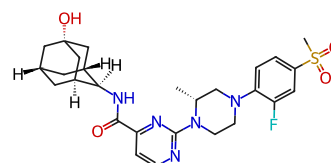
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Target 11β-HSD	Research area Metabolic Disease
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Molecular formula **C₂₇H₃₄FN₅O₄S**

Molecular weight **543.6530**

STRUCTURE



DESCRIPTION

SKI2852 is a potent, selective and orally active 11β-hydroxysteroid dehydrogenase type 1 (11β-HSD1) inhibitor with IC50s of 1.6 nM and 2.9 nM against mHSD1 and hHSD1, respectively .

BIOLOGICAL ACTIVITY

In Vitro

SKI2852 inhibits 11β-HSD1 with an IC50 of 4.4 ± 0.5 nM in HEK293 cells stably transfected with human 11β-HSD1 cDNA.

The amide carbonyl group of SKI2852 established a central hydrogen bond interaction with the hydroxyl side chain of Ser170, one of the key residues (Ser170, Tyr183, and Lys 187) that define the catalytic triad for 11β-HSD1 activity.

In Vivo

SKI2852 (20 mg/kg; oral; once daily for 25 days) significantly reduces blood glucose and HbA1c levels and improved the lipid profiles in ob/ob mice.

SOLUBILITY

soluble in DMSO

REFERENCES

[1]. Ryu JH, et al. Discovery of 2-((R)-4-(2-Fluoro-4-(methylsulfonyl)phenyl)-2-methylpiperazin-1-yl)-N-((1R,2s,3S,5S,7S)-5-hydroxyadamantan-2-yl)pyrimidine-4-carboxamide (SKI2852): A Highly Potent, Selective, and Orally Bioavailable Inhibitor of 11β-Hydroxysteroid Dehydrogenase Type 1 (11β-HSD1). J Med Chem. 2016 Nov 23;59(22):10176-10189.

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Lot CoA and SDS are separate documents.