

Product Datasheet

Mesdopetam hemitartrate

Catalog No. **BP-02030** · CAS **2562346-14-7** · Form **free base** · Physical state **solid** · Color **White to off-white** · Version **1.0** · Revision **2026-09-11**

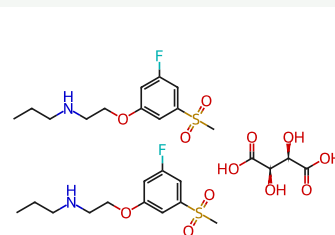
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Target Dopamine Receptor	Research area Neurological Disease
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Molecular formula **C₁₆H₂₄FNO₉S**

Molecular weight **425.4260**

STRUCTURE



DESCRIPTION

Mesdopetam hemitartrate (IRL790 hemitartrate) is an antagonist of dopamine D3 receptor ($K_i=90$ nM; $IC_{50}=9.8$ μ M for human recombinant D3 receptor). It has psychomotor stabilizing properties.

BIOLOGICAL ACTIVITY

Mesdopetam (IRL790) (3.7, 11, 33, or 100 μ mol/kg; s.c.) hemitartrate dose-dependently inhibits the behavioral activation following pretreatment with D-amphetamine or MK-80

SOLUBILITY

Soluble in H₂O : 100 mg/mL

DMSO : 20.83 mg/mL

REFERENCES

[1]. Waters S, Sonesson C, Svensson P, et al. Preclinical Pharmacology of [2-(3-Fluoro-5-Methanesulfonylphenoxy)Ethyl](Propyl)amine (IRL790), a Novel Dopamine Transmission Modulator for the Treatment of Motor and Psychiatric Complications in Parkinson Disease. J Pharmacol Exp Ther. 2020;374(1):113-125.

doi:10.1124/jpet.119.264226

[2]. Becanovic K, Vittoria de Donno M, Sousa VC, Tedroff J, Svenningsson P. Effects of a Novel Psychomotor Stabilizer, IRL790, on Biochemical Measures of Synaptic Markers and Neurotransmission. J Pharmacol Exp Ther. 2020;374(1):126-133. doi:10.1124/jpet.119.264754