

Product Datasheet

GSK690 hydrochloride

Catalog No. **BP-02163A** · CAS **2436760-79-9** · Form **salt** · **hydrochloride** · Physical state **other** · Color **light yellow to yellow**
· Version **1.0** · Revision **2026-09-04**

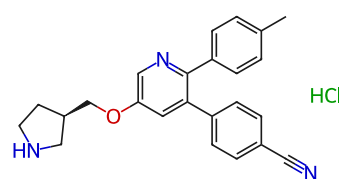
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Target Histone Demethylase	Research area Others
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Molecular formula **C₂₄H₂₄CIN₃O**

Molecular weight **405.9200**

STRUCTURE



DESCRIPTION

GSK 690 (Hydrochloride) is a reversible inhibitor of lysine specific demethylase 1 (LSD1), with a K_d value of 9 nM and a biochemical IC₅₀ of 37 nM.

BIOLOGICAL ACTIVITY

In Vitro

GSK690 (1-10 μM) acts together with JNJ-26481585 to induce cell death in all four tested RMS cells lines (RD, RH30, RMS13, and TE381.T cells).

GSK690/JNJ-26481585 cotreatment alters the balance between pro- and antiapoptotic proteins with 1 μM GSK690 for RD cells and 10 μM GSK690 for RH30 cells.

GSK690/JNJ-26481585 cotreatment induces caspase-dependent cell death with 1 μM GSK690 for RD cells and 10 μM GSK690 for RH30 cells.

The addition of GSK690 further enhances the JNJ-26481585-stimulated G2/M arrest .

SOLUBILITY

Soluble in DMSO : 125 mg/mL

REFERENCES

[1]. Mould DP, et al. Development of (4-Cyanophenyl)glycine Derivatives as Reversible Inhibitors of Lysine Specific Demethylase 1. J Med Chem. 2017 Oct 12;60(19):7984-7999.

[2]. Haydn T, et al. Concomitant epigenetic targeting of LSD1 and HDAC synergistically induces mitochondrial apoptosis in rhabdomyosarcoma cells. Cell Death Dis. 2017 Jun 15;8(6):e2879.

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