

Product Datasheet

BMS-986278

Catalog No. **BP-01982** · CAS **2170126-74-4** · Form **free base** · Physical state **solid** · Color **White to light yellow** · Version **1.0** · Revision **2026-09-10**

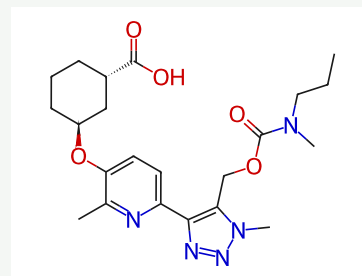
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Target LPL Receptor	Research area Others
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Molecular formula **C₂₂H₃₁N₅O₅**

Molecular weight **445.5120**

STRUCTURE



DESCRIPTION

BMS-986278 is a potent and orally active lysophosphatidic acid receptor 1 (LPA1) antagonist, with K_{bs} of 6.9 nM and 4.0 nM for human and mouse LPA1, respectively. BMS-986278 can be used for the research of pulmonary fibrotic disease.

BIOLOGICAL ACTIVITY

In Vitro

BMS-986278 is a high-affinity LPA1 antagonist, with K_{bs} of 6.9 nM and 4.0 nM for human and mouse LPA1 in CHO cells overexpressing LPA1.

BMS-986278 antagonizes Lysophosphatidic acid (LPA)-stimulated calcium flux in normal human lung fibroblasts, with a K_b of 5.8 nM.

In Vivo

BMS-986278 (0.1-10 mg/kg; a single p.o.) completely inhibits LPA-stimulated systemic histamine release in a concentration-dependent manner in CD1 mice.

BMS-986278 (3-30 mg/kg; p.o. twice daily for 14 d) decreases Bleomycin-induced collagen deposition/lung fibrosis in rats.

SOLUBILITY

Soluble in DMSO 100 mg/mL

REFERENCES

[1]. Cheng PTW, et, al. Discovery of an Oxycyclohexyl Acid Lysophosphatidic Acid Receptor 1 (LPA1) Antagonist BMS-986278 for the Treatment of Pulmonary Fibrotic Diseases. J Med Chem. 2021 Nov 11;64(21):15549-15581.

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