Product Datasheet

BI 99179

Catalog No. **BP-02185** · CAS **1291779-76-4** · Form **free base** · Physical state **solid** · Color **White to off-white** · Version **1.0** · Revision **2026-09-07**

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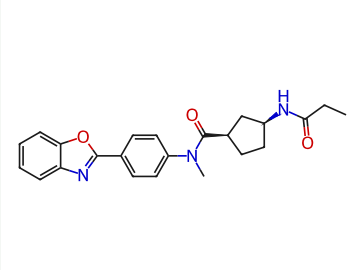
Target	Research area
Fatty Acid Synthase (FASN)	**Metabolic Disease; Cancer**

Molecular formula	$C_{23}H_{25}N_3O_3$
Molecular weight	**391.4629**

STRUCTURE



DESCRIPTION

BI 99179, a chemical probe, is a potent and selective type I fatty acid synthase (FAS) inhibitor with an IC50 of 79 nM. BI 99179 is a tool compound suitable for the in vivo validation of FAS as a target for lipid metabolism related diseases. BI 99179 exhibits significant exposure (both peripheral and central) upon oral administration in rats .

BIOLOGICAL ACTIVITY

In Vitro

BI 99179 is potent in the mouse hypothalamic N-42 cell with an IC50 of 0.6 μM. BI 99179 shows no significant LDH release in the cytotoxicity assay up to 30 μM.

BI 99179 (BI-99179; 1, 2, and 4 μM) shows antiproliferative efficacy in human glioma GAMG cells.

In Vivo

BI 99179 has a super pharmacokinetic profile in male Han/Wistar rats (oral application of 4 mg/kg) with half life (t1/2) of 3.0 h.

SOLUBILITY

soluble in DMSO

REFERENCES

[1]. Kley JT, et al. Discovery of BI 99179, a potent and selective inhibitor of type I fatty acid synthase with central exposure.Bioorg Med Chem Lett. 2011 Oct 1;21(19):5924-7.

[2]. Prosanta K Singha, et al. Evaluation of FASN inhibitors by a versatile toolkit reveals differences in pharmacology between human and rodent FASN preparations and in antiproliferative efficacy in vitro vs. in situ in human cancer cells. Eur J Pharm Sci. 2020 Apr 7;149:105321.

Tel: +86 20 31130026 · Fax: +86 20 36822386 · tech@biochemprobe.com · www.biochemprobe.com
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