Product Datasheet

HA130

Catalog No. **BP-02328** · CAS **1229652-21-4** · Form **free base** · Physical state **solid** · Color **Off-white to yellow** · Version **1.0** · Revision **2026-09-10**

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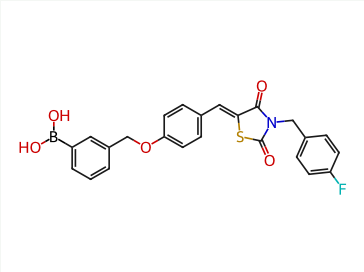
Target	Research area
Phosphodiesterase (PDE)	**Cancer**

Molecular formula	$C_{24}H_{19}BFNO_5S$
Molecular weight	**463.2860**

STRUCTURE



DESCRIPTION

A thiazolidinedione that is designed to target the ATX active site thr210 with a boronic moiety and shown to potently inhibit ATX lysoPLD activity (IC50 ~28 nM using recombinant human ATX or human plasma) in a reversible manner with a mixed-type Lineweaver-Burk kinetics. Reported to exhibit low cytotoxicity (TD50 = 83, 105, and 2056 μM in HEK293T, A2058, and HepG2 cultures) and no activity toward NPP1, PDE, AP, or proteasomal chymotryptic/tryptic/caspase-like activities even at concentrations as high as 10 μM. Although HA130 quickly and effectively reduces circulating LPA level when injected in mice (463 μg/kg, i.v.) in vivo, the effect appears short-lived as is the case with S32826

BIOLOGICAL ACTIVITY

HA130 instantaneously lowers plasma levels of LPA in mice after intravenous administration.HA130 completely blocks the ability of ATX to promote TEM (transendothelial migration). HA130 at 0.3 μM completely ablates the activity of ATX on TK1 uropod formation.

SOLUBILITY

Soluble in DMSO, not in water

REFERENCES

[1]. Zhang Y, et al. Autotaxin through lysophosphatidic acid stimulates polarization, motility, and transendothelial migration of naive T cells. J Immunol. 2012 Oct 15;189(8):3914-3924.

[2]. Bai Z, et al. Constitutive lymphocyte transmigration across the basal lamina of high endothelial venules is regulated by theautotaxin/lysophosphatidic acid axis. J Immunol. 2013 Mar 1;190(5):2036-2048.