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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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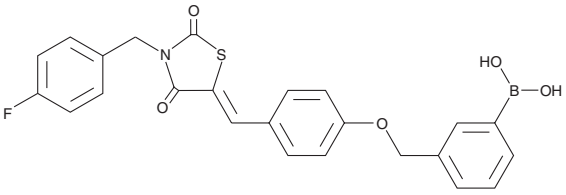
PRODUCT INFORMATION

HA-130

Item No. 10498

CAS Registry No.:	1229652-21-4
Formal Name:	B-[3-[[4-[[3-[(4-fluorophenyl) methyl]-2,4-dioxo-5-thiazolidinylidene]methyl]phenoxy] methyl]phenyl]-boronic acid
MF:	$C_{24}H_{19}BFNO_5S$
FW:	463.3
Purity:	≥98%
UV/Vis.:	λ_{max}: 239, 348 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



Laboratory Procedures

HA-130 is supplied as a crystalline solid. A stock solution may be made by dissolving the HA-130 in the solvent of choice. HA-130 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of HA-130 in these solvents is approximately 0.5, 5, and 10 mg/ml, respectively.

HA-130 is sparingly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

Description

HA-130 is a reversible inhibitor of autotaxin, completely blocking the hydrolysis of the substrate *bis*-pNPP with an IC_{50} value of 28 nM.[1] It does not affect the activity of any proteasomal protease or related enzymes. HA-130 rapidly decreases plasma lysophosphatidic acid levels in mice when given intravenously (1 nM/g).[1] HA-130 has been used to investigate the role of autotaxin in cells and animals.[2-4]

References

1. Albers, H. M. H. G., Dong, A., van Meeteren, L. A., *et al.* Boronic acid-based inhibitor of autotaxin reveals rapid turnover of LPA in the circulation. *Proc. Natl. Acad. Sci. USA* **107(16)**, 7257-7262 (2010).
2. Lai, S. L., Yao, W. L., Tsao, K. C., *et al.* Autotaxin/Lpar3 signaling regulates Kupffer's vesicle formation and left-right asymmetry in zebrafish. *Development* **139(23)**, 4439-4448 (2012).
3. Vázquez-Medina, J. P., Dodia, C., Weng, L., *et al.* The phospholipase A2 activity of peroxiredoxin 6 modulates NADPH oxidase 2 activation *via* lysophosphatidic acid receptor signaling in the pulmonary endothelium and alveolar macrophages. *FASEB J.* **30(8)**, 2885-2898 (2016).
4. Zhang, Y., Chen, Y. C. M., Krummel, M. F., *et al.* Autotaxin through lysophosphatidic acid stimulates polarization, motility, and transendothelial migration of naive T cells. *J. Immunol.* **189(8)**, 3914-3924 (2012).

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