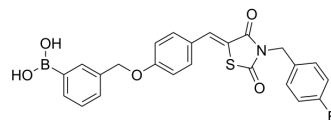


## HA130

<b>Cat. No.:</b>	HY-19329		
<b>CAS No.:</b>	1229652-21-4		
<b>Molecular Formula:</b>	C <sub>24</sub> H <sub>19</sub> BFNO <sub>5</sub> S		
<b>Molecular Weight:</b>	463.29		
<b>Target:</b>	Phosphodiesterase (PDE)		
<b>Pathway:</b>	Metabolic Enzyme/Protease		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : ≥ 39 mg/mL (84.18 mM)  
 \* "≥" means soluble, but saturation unknown.

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.1585 mL	10.7924 mL	21.5848 mL
5 mM	0.4317 mL	2.1585 mL	4.3170 mL
10 mM	0.2158 mL	1.0792 mL	2.1585 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
 Solubility: ≥ 2.5 mg/mL (5.40 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
 Solubility: ≥ 2.5 mg/mL (5.40 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

HA130 is a selective autotaxin (ATX) inhibitor with an IC<sub>50</sub> of 28 nM.

#### IC<sub>50</sub> & Target

Autotaxin  
 28 nM (IC<sub>50</sub>)

#### In Vitro

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<sup>[1]</sup>.  
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## In Vivo

HA130 slows T cell migration across lymph node HEVs. HA130 decreases the "outside HEVs/inside HEVs" ratio by 3-4-fold compared to vehicle-treated animals vehicle<sup>[1]</sup>.

The s.c. administration of HA130 induces marked lymphocyte accumulation within the endothelial cell (EC) and sub-EC layers of HEVs in draining lymph nodes (LNs)<sup>[2]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## CUSTOMER VALIDATION

- EBioMedicine. 2020 Feb;52:102652.
- Basic Res Cardiol. 2024 Jan 18.
- J Crohns Colitis. 2022 Feb 1;jjac017.
- Cell Mol Life Sci. 2020 Jul 30.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## 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 the autotaxin/lysophosphatidic acid axis. J Immunol. 2013 Mar 1;190(5):2036-2048.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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