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Data Sheet

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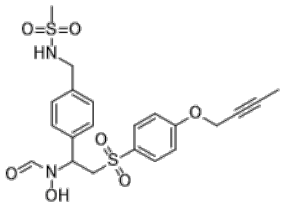
Product Name	:	KP-457
Cat. No.	:	PC-25875
CAS No.	:	1365803-52-6
Molecular Formula	:	$C_{21}H_{24}N_2O_7S_2$
Molecular Weight	:	480.55
Target	:	Matrix Metalloproteinase (MMP)
Solubility	:	10 mM in DMSO



CAS: 1365803-52-6

Biological Activity

KP-457 is a potent, selective ADAM17 inhibitor with IC50 of 11.1 nM, >50 times more selective for ADAM17 than for other MMPs and ADAM10.
KP-457 blocks Zn2+ chelation of the catalytic domain of ADAM17.
KP-457 blocks GPIbα shedding from iPSC platelets at a lower half-maximal inhibitory concentration than panmetalloproteinase inhibitor GM-6001.
KP-457 exhibits improved GPIbα-dependent aggregation not inferior to human fresh platelets.
KP-457 effectively enhances the production of functional human iPSC-derived platelets at 37°C.

References

Hirata S, et al. Stem Cells Transl Med. 2017 Mar;6(3):720-730.

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