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Data Sheet

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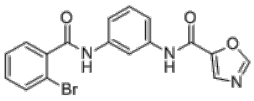
Product Name	:	NRD-21
Cat. No.	:	PC-20576
CAS No.	:	2403529-11-1
Molecular Formula	:	$C_{17}H_{12}BrN_3O_3$
Molecular Weight	:	386.21
Target	:	Protease-activated Receptor (PAR)
Solubility	:	10 mM in DMSO



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Biological Activity

NRD-21 is a potent, selective, reversible, negative allosteric modulator of **PAR1** with IC50 of 0.37 uM in calcium mobilization assays.
NRD-21 is a negative allosteric modulator of TFLLRN-NH2 at PAR1, rather than a simple competitive inhibition.
NRD-21 (10 uM) caused complete inhibition of platelet aggregation in human platelets in the presence of the PAR1/2 agonist SFLLRN-NH2 (1.5 μM).
NRD-21 (10 uM) inhibited TNF-α (25 ng/mL) induced TF expression in HUVEC.
NRD-21 shows slightly improved potency over Parmodulin 2 (Cat. PC-62640, ML161, IC50=0.57 uM), but with much improved plasma stability, making it more suitable for in vivo studies.

References

Disha M Gandhi, et al. ***Bioorg Med Chem***. 2019 Sep 1;27(17):3788-3796.

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