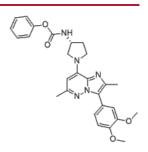


WWW.PROBECHEM.COM

Product Name	:	PDDC
Cat. No.	:	PC-72748
CAS No.	:	2232878-43-0
Molecular Formula	:	C ₂₇ H ₂₉ N ₅ O ₄
Molecular Weight	:	487.56
Target	:	Other Targets
Solubility	:	10 mM in DMSO

Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.



Biological Activity

PDDC is the first potent, selective, orally-available, and brain-penetrable **nSMase2** (neutral sphingomyelinase 2) inhibitor with pIC50 of 6.57.

PDDC inhibited release of ADEVs in tissue culture and in vivo, capable of dose-dependently reducing EVs release in vitro and in vivo.

PDDC reduced these IL-1β-induced changes implicating nSMase2 inhibition as a therapeutic target for acute brain injury.

References

Rojas C, et al. Br J Pharmacol. 2019 Oct;176(19):3857-3870.

Šála M, et al. *J Med Chem.* 2020 Jun 11;63(11):6028-6056.

Tallon C, et al. *Biochem Pharmacol.* 2021 Dec;194:114796.

Caution: Product has not been fully validated for medical applications. Lab Use Only! E-mail: tech@probechem.com