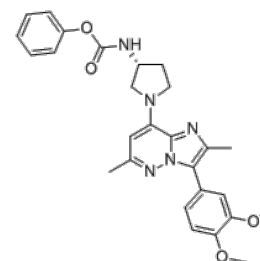


Product Name : PDDC
Cat. No. : PC-72748
CAS No. : 2232878-43-0
Molecular Formula : C₂₇H₂₉N₅O₄
Molecular Weight : 487.56
Target : Other Targets
Solubility : 10 mM in DMSO



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-1 β -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