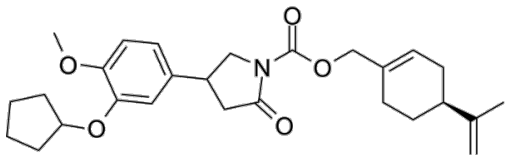
Product Data Sheet

Product Name: NEO214
Cat. No.: GC72950

Chemical Properties

Cas. No.	1361198-80-2		
Formula	$C_{27}H_{35}NO_5$	M.Wt	453.57
Solubility	DMSO : 100 mg/mL (220.47 mM; Need ultrasonic)	Storage	-20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			



Background

Product Data Sheet

NEO214 is an autophagy inhibitor and a covalent conjugate of the PDE4 inhibitor Rolipram and perillyl alcohol . It has anti-cancer activity and blood-brain barrier (BBB) permeability. Over sex. NEO214 prevents autophagy-lysosome fusion, thereby blocking autophagic flux and triggering glioma cell death. The process involves mTOR activation, andTFEB(Transcription Factor EB) aggregation. NEO214 inhibitionMacroautophagy/autophagy in glioblastoma cells has the potential to overcome chemotherapy resistance in glioblastoma.

References:

[1]. Ou M, et al. Inhibition of autophagy and induction of glioblastoma cell death by NEO214, a perillyl alcohol-rolipram conjugate. Autophagy. 2023 Dec;19(12):3169-3188.

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

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