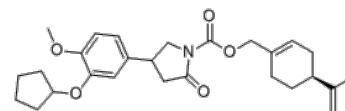


Product Name : NEO214
Cat. No. : PC-36017
CAS No. : 1361198-80-2
Molecular Formula : C₂₇H₃₅NO₅
Molecular Weight : 453.579
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

NEO214 (NEO-214) is a novel, BBB-permeable rolipram-perillyl alcohol conjugate, shows effectivity against both TMZ-sensitive and TMZ-resistant glioma cells (T98G IC₅₀=40 uM).

NEO214 triggers apoptosis by activating the ER stress pathway, induces Death Receptor 5 (DR5) and TNF-related apoptosis inducing ligand (TRAIL/Apo2L) mediated cytotoxicity, without cytotoxicity to normal cells.

NEO214 is generated by covalently conjugating rolipram, a **PDE4** (phosphodiesterase 4) inhibitor, to perillyl alcohol, a naturally occurring monoterpene related to limonene.

NEO214 decreases glioma progression in the in vivo mouse tumor model.

References

Cho HY, et al. *Mol Cancer Ther.* 2019 Jan 15. pii: molcanther.0465.2018.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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