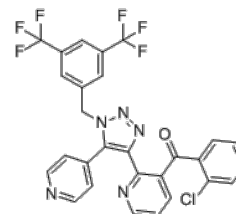


Product Name : Tradipitant
Cat. No. : PC-38599
CAS No. : 622370-35-8
Molecular Formula : C₂₈H₁₆ClF₆N₅O
Molecular Weight : 587.9
Target : Neurokinin Receptor
Solubility : 10 mM in DMSO



Biological Activity

Tradipitant (VLY-686, LY686017) is a selective, orally bioavailable, centrally-acting **neurokinin-1 receptor (NK1)** antagonist with potential anti-emetic, anti-pruritic and anti-inflammatory activities.

Tradipitant competitively binds to and blocks the activity of the NK1R in the central nervous system (CNS), thereby inhibiting the binding of the endogenous ligand and neuropeptide, substance P (SP; neurokinin-1; NK1).

Tradipitant inhibits SP/NK1-mediated signal transduction and may prevent both SP-induced emesis and pruritis, also reduces neurogenic inflammation which is triggered by the release of neuropeptides, such as substance P, from nerve cells.

References

Coe MA, et al. *Psychopharmacology (Berl)*. 2021 Jul;238(7):1857-1866.

Polymeropoulos VM, et al. *Front Neurol*. 2020 Sep 29;11:563373.

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

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