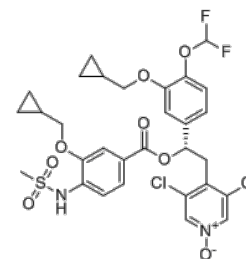


Product Name : CHF6001
Cat. No. : PC-60725
CAS No. : 1239278-59-1
Molecular Formula : C₃₀H₃₀Cl₂F₂N₂O₈S
Molecular Weight : 687.533
Target : Phosphodiesterase (PDE)
Solubility : 10 mM in DMSO



Biological Activity

Tanimilast (CHF6001) is a novel, highly potent and selective phosphodiesterase 4 (**PDE4**) inhibitor with IC₅₀ of 0.026 nM. CHF6001 inhibits PDE4 isoforms A-D with equal potency, 7- and 923-fold more potent than roflumilast and cilomilast, and displays >20,000-fold selectivity versus PDE4 compared with a panel of PDEs. CHF6001 effectively inhibits (subnanomolar IC₅₀ values) the release of TNF- α from human PBMCs, THP-1, and rodent macrophages. CHF6001 inhibits LPS-induced pulmonary neutrophilia (ED₅₀=0.205 μ M/kg) and leukocyte infiltration (ED₅₀=0.188 μ M/kg) in rats.

References

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Villetti G, et al *J Pharmacol Exp Ther*. 2015 Mar;352(3):568-78.
Moretto N, et al. *J Pharmacol Exp Ther*. 2015 Mar;352(3):559-67.
Edwards MR, et al. *Pharmacol Res Perspect*. 2016 Jan 15;4(1):e00202.

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

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