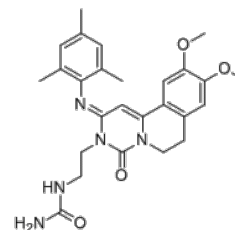


Product Name : Ensifentrine
Cat. No. : PC-60220
CAS No. : 1884461-72-6
Molecular Formula : C₂₆H₃₁N₅O₄
Molecular Weight : 477.554
Target : Phosphodiesterase (PDE)
Solubility : 10 mM in DMSO



Biological Activity

RPL-554 (Ensifentrine, LS-193855, RPL554) is a potent, orally available, dual **PDE3/PDE4** inhibitor with IC₅₀ of 0.4 nM and 1479 nM, respectively.

RPL-554 inhibits LPS-induced TNFα release from human monocytes with IC₅₀ of 0.52 μM, and proliferation of human mononuclear cells to phytohemagglutinin (IC₅₀=0.46 μM).

RPL-554 significantly inhibits eosinophil recruitment following antigen challenge in ovalbumin-sensitized guinea pigs (10mg/kg).

References

Boswell-Smith V, et al. *J Pharmacol Exp Ther.* 2006 Aug;318(2):840-8.

Calzetta L, et al. *J Pharmacol Exp Ther.* 2013 Sep;346(3):414-23.

Turner MJ, et al. *Am J Physiol Lung Cell Mol Physiol.* 2016 Jan 1;310(1):L59-70.

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

E-mail: tech@probechem.com