

Product Name : RPL-554

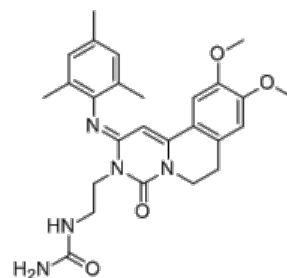
Synonyms : LS-193855; RPL 554; RPL554

Cat No. : M13914

CAS Number : 298680-25-8

Molecular Formula : C₂₆H₃₁N₅O₄

Formula Weight : 477.55



Chemical Name : 9,10-Dimethoxy-2-(2,4,6-trimethylphenylimino)-3-(N-carbamoyl-2-aminoethyl)-3,4,6,7-tetrahydro-2H-pyrimido[6,1-a]isoquinolin-4-one

Description : RPL-554 (LS-193855, RPL554) is a potent, orally available, dual PDE3/PDE4 inhibitor with IC₅₀ of 0.4 nM and 1479 nM, respectively; 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); significantly inhibits eosinophil recruitment following antigen challenge in ovalbumin-sensitized guinea pigs (10mg/kg). Asthma Phase 2 Clinical

Pathway : Angiogenesis

Target : PDE

Receptor : PDE

Solubility : —

SMILES : O=C(N)NCCN1C(N(CCC2=C3C=C(OC)C(OC)=C2)C3=C/C1=N/C4=C(C)C=C(C)C=C4C)=O

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Boswell-Smith V, et al. J Pharmacol Exp Ther. 2006 Aug;318(2):840-8. 2. Calzetta L, et al. J Pharmacol Exp Ther. 2013 Sep;346(3):414-23. 3. Turner MJ, et al. Am J Physiol Lung Cell Mol Physiol. 2016 Jan 1;310(1):L59-70.