

Product Data Sheet

Product Name: TP-10
Cat. No.: GC32454

Chemical Properties

Cas. No. 898563-00-3

SMILES FC(F)(F)CN1C=C(C2=CC=NC=C2)C(C(C=C3)=CC=C3OCC4=NC5=CC=CC=C5C=C4)=N1

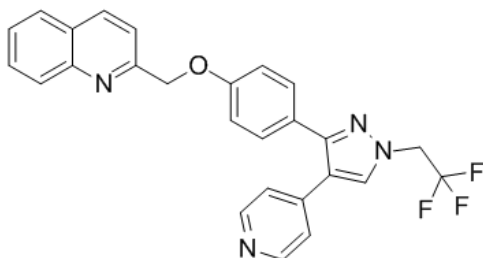
Formula $C_{26}H_{19}F_3N_4O$ M.Wt 460.45

Solubility DMSO : ≥ 100 mg/mL (217.18 mM); Water : < 0.1 mg/mL (insoluble) Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

TP-10 is a PDE10A inhibitor with IC_{50} of 0.8 nM. IC_{50} value: 0.8 nM [1] Target: PDE10A TP-10 has extremely potent PDE10A inhibitory activity and high selectivity against other PDEs, and be active in the mouse behavioral model for positive symptoms. TP-10 demonstrates good in vitro and in vivo activity, the intrinsic clearance (CL_{int}) of these compounds in mouse liver microsomes (MLM) was extremely high in assay ($CL_{int} > 1000$ mL/min/kg). [1]

Caution: Product has not been fully validated for medical applications. For research use only.

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[1]. Hamaguchi W, et al. Synthesis and in vivo evaluation of novel quinoline derivatives as phosphodiesterase 10A inhibitors. Chem Pharm Bull (Tokyo). 2014;62(12):1200-1213. [2]. Verhoest PR, et al. Discovery of a novel class of phosphodiesterase 10A inhibitors and identification of clinical candidate 2-[4-(1-methyl-4-pyridin-4-yl-1H-pyrazol-3-yl)-phenoxy-methyl]-quinoline (PF-2545920) for the treatment of schizophrenia. J Med Chem

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