
Product Data Sheet

Product Name: MT-3014
Cat. No.: GC36659

Chemical Properties

Cas. No. 1332727-40-8

SMILES CC(O)(C)CNC1=CC(N2C[C@H](F)CC2)=NC3=CC(C4=NC5=CC(F)=CC=C5N=C4C)=NN13

Formula C₂₃H₂₅F₂N₇O M.Wt 453.49

Solubility Soluble in DMSO 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 sizes: ship with RT, or blue ice upon request.

Structure

Background

MT-3014 is a potent, highly selective and brain-penetrated phosphodiesterase 10A (PDE 10A) inhibitor, with IC₅₀s of 0.062 nM and 0.09 nM for human PDE 10A and bovine PDE 10A, respectively[1]. human PDE 10A|0.062 nM (IC₅₀)|bovine PDE 10A|0.09 nM (IC₅₀)

[1]. Koizumi Y, et al. Discovery of a pyrazolo[1,5-a]pyrimidine derivative (MT-3014) as a highly selective PDE10A inhibitor via core structure transformation from the stilbene moiety. Bioorg Med Chem. 2019 Jun 19.

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

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