

Product Data Sheet

Product Name: BI-409306

Cat. No.: GC19068

Chemical Properties

Cas. No. 1189767-28-9

SMILES O=C1C2=C(N(C3CCOCC3)N=C2)NC(CC4=CC=CC=N4)=N1

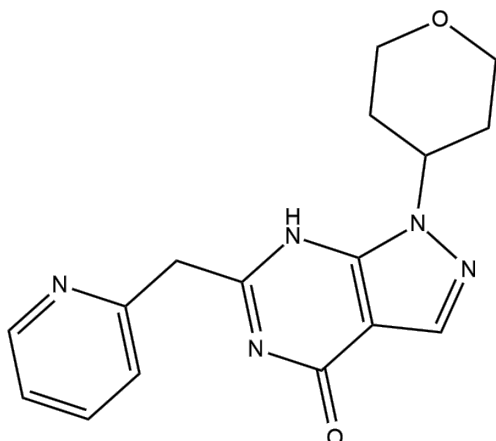
Formula $C_{16}H_{17}N_5O_2$ M.Wt 311.34

Solubility DMSO : ≥ 75 mg/mL (240.89 mM) 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

BI-409306 is a potent and selective PDE9A inhibitor, with an IC_{50} of 52 nM, and shows weak activity against other PDEs, such as PDE1A (IC_{50} , 1.4 μM), PDE1C (IC_{50} , 1.0 μM), PDE2A, PDE3A, PDE4B, PDE5A, PDE6AB, PDE7A, and PDE10A (IC_{50} all > 10 μM); BI-409306 can be used in the research of memory enhancement in CNS disorders.

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

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non-PDE targets at 10 μ M. BI-409306 enhances long-term potentiation (LTP) in rat hippocampal slices[1].

References:

[1]. Cornelia Dorner-Ciossek, et al. BI 409306, a novel phosphodiesterase 9A inhibitor, part I: potency, selectivity and in-vitro functional characterization on synaptic plasticity. International Congress on Schizophrenia Research.

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