

Product Data Sheet

Product Name: CAY10498

Cat. No.: GC41294

Chemical Properties

Cas. No. 863202-33-9

SMILES c1ccc(cc1)Nc1nc(NC2CC3CCC2C3)c2nc[nH]c2n1

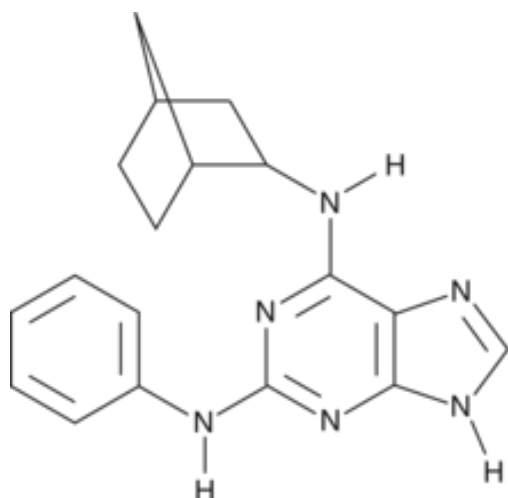
Formula C₁₈H₂₀N₆ M.Wt 320.4

Solubility DMF: 10 mg/ml, DMSO: 10 mg/ml, DMSO:PBS (pH 7.2) (1:4): .2 mg/ml, Ethanol: 1 mg/ml
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



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

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Background

The A1, A2A, A2B, and A3 adenosine receptors (ARs) are ubiquitous G protein-coupled receptors. The four AR subtypes have been implicated in several areas of therapeutic interest such as stroke and other ischemic conditions, as well as inflammation, neurodegenerative diseases, diabetes, and sleep regulation. A3 AR antagonists are of interest as therapeutic agents in glaucoma agents and inflammation. CAY10498 is a potent and selective A3 AR antagonist exhibiting a K_i of 37 nM with 60 and 200-fold selectivity over A1 and A2A adenosine receptors, respectively. CAY10498 is also a structural analog of reversine, a dedifferentiation agent of embryonic progenitor cells. However, no dedifferentiation effects or any connection between A3 AR antagonism and dedifferentiation have been demonstrated.

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