

Product Data Sheet

Product Name: CAY10786

Cat. No.: GC49080

Chemical Properties

Cas. No. 1239987-91-7

SMILES O=C(C1=CC=CS1)/C=C/CCC2=CC=CC=C2

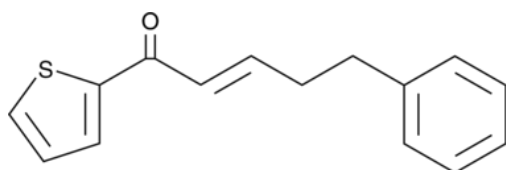
Formula C₁₅H₁₄OS M.Wt 242.3

Solubility Chloroform: 10 mg/ml Storage -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

CAY10786 is an antagonist of G protein-coupled receptor 52 (GPR52; IC₅₀ = 0.63 μM).¹ It reduces mutant huntingtin (mHTT) protein levels in STHdh^{Q7/Q111} cells, a heterozygous *in vitro* model of Huntington's disease, in a concentration-dependent manner. CAY10786 (3 μM) reduces apoptosis induced by growth factor deprivation in primary striatal neurons isolated from the heterozygous Hdh^{Q7/Q140} mouse model of Huntington's disease. It decreases striatal levels of soluble and insoluble mHTT, as well as increases the latency to fall in the rotarod test, in the homozygous Hdh^{Q140} mouse model of Huntington's disease, when administered at a dose of 5 mg/kg.

1. Wang, C., Zhang, Y.-F., Guo, S., et al. GPR52 antagonist reduces huntingtin levels and ameliorates Huntington's disease-related phenotypes. *J. Med. Chem.* 64(2):941-957 (2021)

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

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