

## 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

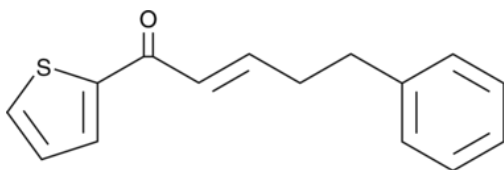
Formula C<sub>15</sub>H<sub>14</sub>OS M.Wt 242.3

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; IC<sub>50</sub> = 0.63 μM).<sup>1</sup> It reduces mutant huntingtin (mHTT) protein levels in STHdh<sup>Q7/Q111</sup> 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<sup>Q7/Q140</sup> 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<sup>Q140</sup> 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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