

Product Data Sheet

Product Name: DB772
Cat. No.: GC70398

Chemical Properties

Cas. No. 1451058-50-6

Formula $C_{20}H_{18}Cl_2N_4O$ M.Wt 401.29

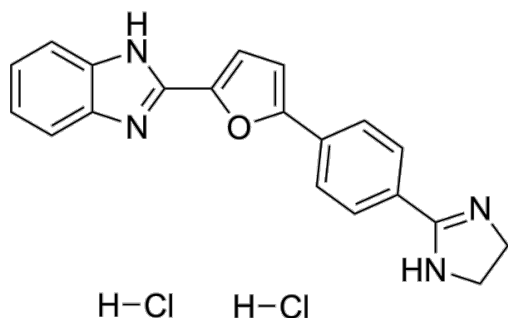
Solubility DMSO : 10 mg/mL (24.92 mM; Need ultrasonic; Hygroscopic DMSO has a significant impact on the solubility of product, please use newly opened DMSO)

Storage 4°C, sealed storage, away from moisture and light

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

DB772 hydrate is a bovine viral diarrhoea virus (BVDV) inhibitor. DB772 also has anti-prion activity.

DB772 hydrate (0-100 μ M, 96 hours) can inhibit replication of the viruses BVDV2 and BDV at concentrations greater than 0.2 μ M, Bungowannah virus replication at concentrations greater than

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

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0.01 μM , and HoBi virus replication greater than 1.65 μM [2].

DB772 hydrate has antiprion activity with CC_{50} (50% cytotoxic concentration) value of 3.8 μM , TC-EC_{50} (50% tissue culture effective concentration) value of 0.8 μM and inhibits PrP^{Sc} accumulation in sheep microglia[3].

References:

- [1]. James B Stanton, et al. Discovery of a novel, monocationic, small-molecule inhibitor of scrapie prion accumulation in cultured sheep microglia and Rov cells. PLoS One. 2012;7(11):e51173.
- [2]. Benjamin W Newcomer, et al. Efficacy of an antiviral compound to inhibit replication of multiple pestivirus species. Antiviral Res. 2012 Nov;96(2):127-9.
- [3]. Kelcey D Dinkel, et al. Antiprion Activity of DB772 and Related Monothiophene- and Furan-Based Analogs in a Persistently Infected Ovine Microglia Culture System. Antimicrob Agents Chemother. 2016 Aug 22;60(9):5467-82.

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