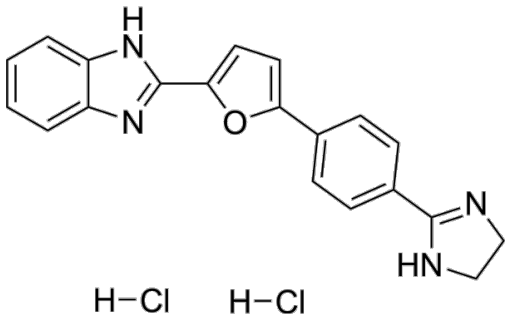
Product Data Sheet

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 μM, 96 hours) can inhibit replication of the viruses BVDV2 and BDV at concentrations greater than 0.2 μM, Bungowannah virus replication at concentrations greater than

Product Data Sheet

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.

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