Product Data Sheet

Product Name: Glucosylceramide synthase-IN-2
Cat. No.: GC65902

Chemical Properties

Cas. No.	2597958-02-4		
Formula	$C_{22}H_{20}F_3N_3O_4$	M.Wt	447.41
Solubility	DMSO : 100 mg/mL (223.51 mM; Need ultrasonic)	Storage	4°C, away from moisture and light
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ 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

Glucosylceramide synthase-IN-2 (compound T-690) is a potent, brain-penetrant and orally active **glucosylceramide synthase (GCS)** inhibitor with **IC_{50}**s of 15 nM and 190 nM for human GCS and mouse GCS, respectively.Glucosylceramide synthase-IN-2 exhibits noncompetitive type inhibition with C8-ceramide and UDP-glucose.Glucosylceramide synthase-IN-2 can be used for Gaucher's disease research[1].

Glucosylceramide synthase-IN-2 (compound T-690) has no SERT inhibitory activity (IC_{50}>10 μM). Glucosylceramide synthase-IN-2 does not affect GCase activity (EC_{50}>300 μM)[1].
Glucosylceramide synthase-IN-2 (30 μM) does not potently inhibit hERG, $Ca_V1.2$, and $Na_V1.5$ channels[1].

Glucosylceramide synthase-IN-2 (compound T-690; po; 30, 100, 300 mg/kg) reduces GlcCer concentrations in the plasma and cerebral cortex in a dose-dependent manner in C57BL/6J mice[1].
Glucosylceramide synthase-IN-2 (po; 5 mg/kg) has a C_{max} of 416 ng/mL.

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Glucosylceramide synthase-IN-2 shows good oral exposure (BA = 31%)[1].
Glucosylceramide synthase-IN-2 reveals good brain exposure (Cu,brain = 0.21 μM at 30 mg/kg dosing, 1 h)[1].

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