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## Product Data Sheet

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Product Name: Glucosylceramide synthase-IN-1

Cat. No.: GC64834

### Chemical Properties

Cas. No. 2601393-20-6

Formula C<sub>24</sub>H<sub>20</sub>F<sub>4</sub>N<sub>2</sub>O<sub>3</sub>

M.Wt 460.42

Solubility DMSO : 100 mg/mL (217.19 mM; Need ultrasonic) Storage Store at -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

Glucosylceramide synthase-IN-1 (T-036) a potent, brain-penetrant and orally active glucosylceramide synthase (GCS) inhibitor with IC<sub>50</sub>s of 31 nM and 51 nM for human GCS and mouse GCS, respectively. Glucosylceramide synthase-IN-1 can be used for Gaucher's disease research[1].

Glucosylceramide synthase-IN-1 (T-036) potently reduces the GCS product, catalyze glucosylceramide (GlcCer), in the fibroblasts with Gaucher's disease (EC<sub>50</sub> of 7.6 nM)[1].

Glucosylceramide synthase-IN-1 (T-036) has good oral exposure (BA = 67%) and moderate brain penetration (K<sub>puu,brain</sub> = 0.11). Administration of a single dose of Glucosylceramide synthase-IN-1 (T-036) reduces GlcCer in the plasma and cerebral cortex of wild-type mice, and administration of Glucosylceramide synthase-IN-1 (T-036) for 2 months significantly reduces glucosylsphingosine (GlcSph) in the cerebral cortex of the Gaucher's disease mouse model[1].

[1]. Yuta Tanaka, et al. Discovery of Brain-Penetrant Glucosylceramide Synthase Inhibitors with a Novel Pharmacophore. J Med Chem. 2022 Mar 10;65(5):4270-4290

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA