Product Data Sheet

Product Name: Ibiglustat succinate
Cat. No.: GC68163

Chemical Properties

Cas. No.	1629063-80-4		
Formula	$C_{24}H_{30}FN_3O_6S$	M.Wt	507.57
Solubility	DMSO : ≥ 250 mg/mL (492.54 mM)	Storage	Store at -20°C
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	Ibiglustat succinate		

Background

Ibiglustat (Venglustat) succinate is an orally active, brain-penetrant **glucosylceramide synthase (GCS)** inhibitor. Ibiglustat succinate can be used for the research of Gaucher disease type 3, Parkinson's disease associated with GBA mutations, Fabry disease, GM2 gangliosidosis, and autosomal dominant polycystic kidney disease[1][2].

Ibiglustat (SAR402671) succinate (1 μM, 15 days; Fabry disease (FD) cells) is close to the physiological level in untreated WT cells in GL-3 levels, suggesting that Ibiglustat succinate can prevent additional GL-3 accumulation and could serve to ameliorate the abundant levels of this sphingolipid in FD cardiomyocytes[4].

[1]. Viel C, et al. Preclinical pharmacology of glucosylceramide synthase inhibitor venglustat in a GBA-related synucleinopathy model. Sci Rep. 2021;11(1):20945. Published 2021 Oct 22.
[2]. Peterschmitt MJ, et al. Pharmacokinetics, Pharmacodynamics, Safety, and Tolerability of Oral Venglustat in Healthy Volunteers. Clin Pharmacol Drug Dev. 2021;10(1):86-98.
[3]. Iva Stojkovska, et al. Molecular mechanisms of α-synuclein and GBA1 in Parkinson's disease. Cell Tissue Res. 2017.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA

[4]. Itier JM, et al. Effective clearance of GL-3 in a human iPSC-derived cardiomyocyte model of Fabry disease. J Inherit Metab Dis. 2014;37(6):1013-1022.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA