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产品名称：N-Butyldeoxynojirimycin Hydrochloride
产品别名：Miglustat hydrochloride；盐酸美格鲁特；NB-DNJ hydrochloride; OGT918 hydrochloride

生物活性：

Description

Miglustat hydrochloride is an inhibitor of glucosylceramide synthase, primarily to treat Type I Gaucher disease (GD1). Target: Others Miglustat is an inhibitor of the ceramide-specific glycosyltransferase, which catalyzes the first step of glycosphingolipid biosynthesis and is currently approved for the oral treatment of type 1 GD [1]. Consumption of a standard high-fat breakfast within 30 minutes before administration of miglustat significantly reduced peak exposure but did not significantly affect the extent of systemic exposure to miglustat. The peak plasma concentration (C(max)) decreased by 36% on average following administration with food. Area under the plasma concentration-time curve (AUC(0-infinity)) showed a modest (14%) decrease with food, but the 90% confidence interval was within the acceptance limit of 80% to 125%. The median (min-max) time to C(max) (t(max)) was prolonged from 2.5 (1.0-4.0) hours in the fasted state to 4.5 (1.5-8.0) hours in the fed state, whereas the apparent terminal half-life was approximately 8 hours and not affected by food [2].

Solvent&Solubility

In Vitro:

H_2O : ≥ 34 mg/mL (132.95 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.9102 mL	19.5511 mL	39.1022 mL
	5 mM	0.7820 mL	3.9102 mL	7.8204 mL
	10 mM	0.3910 mL	1.9551 mL	3.9102 mL

*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液；一旦配成溶液，请分装保存，避免反复冻融造成的产品失效。

储备液的保存方式和期限：-80°C, 6 months; -20°C, 1 month (stored under nitrogen)。-80°C 储存时，请在 6 个月内使用，-20°C 储存时，请在 1 个月内使用。

References

[1]. Abian, O., et al., Therapeutic strategies for Gaucher disease: miglustat (NB-DNJ) as a pharmacological chaperone for glucocerebrosidase and the different thermostability of velaglucerase alfa and imiglucerase. Mol Pharm, 2011. 8(6): p. 2390-7.

[2]. van Giersbergen, P.L. and J. Dingemanse, Influence of food intake on the pharmacokinetics of miglustat, an inhibitor of glucosylceramide synthase. J Clin Pharmacol, 2007. 47(10): p. 1277-82.