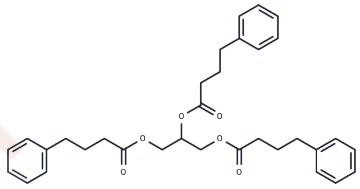
Data Sheet (Cat.No.T15393)

TargetMol

Glycerol phenylbutyrate

Chemical Properties



CAS No. : 611168-24-2

Formula: C33H38O6

Molecular Weight: 530.65

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Glycerol phenylbutyrate (HPN-100) (GPB) is a new generation ammonia scavenger drug and it also is a sigma-2 (σ2) receptor ligand (pKi: 8.02).
Targets(IC50)	Sigma receptor
In vivo	Glycerol phenylbutyrate may have therapeutic potential in additional conditions such as chronic hepatic encephalopathy or other inherited metabolic disorders. Glycerol phenylbutyrate also has the potential for the treatment of hyperammonemia. [1][2].

Solubility Information

Solubility	DMSO: 150 mg/mL (282.67 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8845 mL	9.4224 mL	18.8448 mL
5 mM	0.3769 mL	1.8845 mL	3.769 mL
10 mM	0.1884 mL	0.9422 mL	1.8845 mL
50 mM	0.0377 mL	0.1884 mL	0.3769 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Rescifina A, et al. Development of a Sigma-2 Receptor affinity filter through a Monte Carlo based QSAR analysis. Eur J Pharm Sci. 2017 Aug 30;106:94-101.

Oishi K, et al. Glycerol phenylbutyrate for the chronic management of urea cycle disorders. Expert Rev Endocrinol Metab. 2014 Sep;9(5):427-434.

Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481