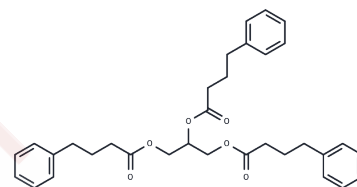


Glycerol phenylbutyrate

Chemical Properties

CAS No. : 611168-24-2
 Formula: C33H38O6
 Molecular Weight: 530.65
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
 Actual storage temperature shall be subject to the COA.



Biological Description

| | |
|---------------|--|
| Description | Glycerol phenylbutyrate (HPN-100) (GPB) is a new generation ammonia scavenger drug and it also is a sigma-2 (σ_2) 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) |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (7.54 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i> |

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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

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.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481