

## Glycerol phenylbutyrate-D15

## Chemical Properties

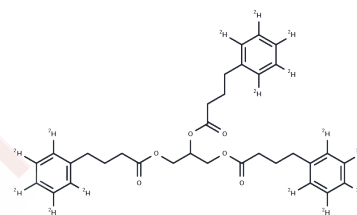
CAS No. :

Formula: C33H23D15O6

Molecular Weight: 545.74

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-D15 is a deuterium-labeled Glycerol phenylbutyrate. Glycerol phenylbutyrate (T15393) is a sigma-2 ( $\sigma_2$ ) receptor ligand (pKi: 8.02).
In vivo	Glycerol phenylbutyrate (GPB) exhibits therapeutic potential not only for hyperammonemia but also for conditions like chronic hepatic encephalopathy and various inherited metabolic disorders.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8324 mL	9.1619 mL	18.3237 mL
5 mM	0.3665 mL	1.8324 mL	3.6647 mL
10 mM	0.1832 mL	0.9162 mL	1.8324 mL
50 mM	0.0366 mL	0.1832 mL	0.3665 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

Rescina 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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