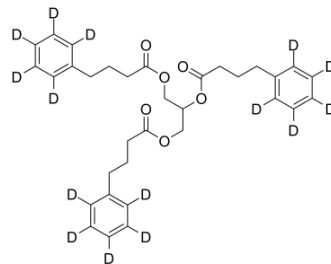


Glycerol phenylbutyrate-D15

Cat. No.:	HY-B2087S
Molecular Formula:	C ₃₃ H ₂₃ D ₁₅ O ₆
Molecular Weight:	545.74
Target:	Sigma Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Glycerol phenylbutyrate-D15 is a deuterium labeled Glycerol phenylbutyrate. Glycerol phenylbutyrate is a sigma-2 (σ 2) receptor ligand, with a pK _i of 8.02. Glycerol phenylbutyrate (GPB) is a new generation ammonia scavenger drug ^{[1][2]} .
IC₅₀ & Target	σ 2 receptor ^[1] .
In Vivo	Glycerol phenylbutyrate (GPB) has the potential for the treatment of hyperammonemia. Glycerol phenylbutyrate (GPB) may have therapeutic potential in additional conditions such as chronic hepatic encephalopathy or other inherited metabolic disorders ^{[1][2]} . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. 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.
- [2]. Oishi K, et al. Glycerol phenylbutyrate for the chronic management of urea cycle disorders. *Expert Rev Endocrinol Metab.* 2014 Sep;9(5):427-434.

Caution: Product has not been fully validated for medical applications. For research use only.

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