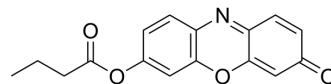


Resorufin butyrate

Cat. No.:	HY-116583
CAS No.:	15585-42-9
Molecular Formula:	C ₁₆ H ₁₃ NO ₄
Molecular Weight:	283.28
Target:	Cholinesterase (ChE)
Pathway:	Neuronal Signaling
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



BIOLOGICAL ACTIVITY

Description	Resorufin butyrate is a fluorogenic substrate for triglyceride lipases and cholinesterase (Ex=570 nm, Em=580 nm) ^{[1][2][3]} .
IC₅₀ & Target	Triglyceride lipases, cholinesterase ^[1]
In Vitro	Resorufin butyrate (2.3 μM) displays a linear increase in fluorescence over 60 min (conducted in 384-well plates using 12 nM of bLPL enzyme and substrate in PBS, pH 7.5, 5% DMSO) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. J. Biomol Screen, et al. Resorufin butyrate as a soluble and monomeric high-throughput substrate for a triglyceride lipase. J Biomol Screen. 2012 Feb;17(2):245-51.
- [2]. Guilbault, G.G., et al. Resorufin butyrate and indoxyl acetate as fluorogenic substrates for cholinesterase. Anal Chem. 1965 Jan;37:120-3.
- [3]. J. Hofmann, et al. Immobilized enzyme kinetics analyzed by flow-through microfluorimetry : Resorufin-β-d-galactopyranoside as a New Fluorogenic Substrate for β-Galactosidase. Anal. Chim. Acta 163, 67-72 (1984).

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

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