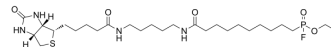


FP-Biotin

Cat. No.:	HY-136924
CAS No.:	259270-28-5
Molecular Formula:	C ₂₇ H ₅₀ FN ₄ O ₅ PS
Molecular Weight:	592.75
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	FP-biotin is a potent organophosphorus toxicant, well-suited for searching for new biomarkers of organophosphorus toxicants exposure. FP-Biotin quantifies FAAH, ABHD6, and MAG-lipase activity. FP-biotin is used for studies with plasma because biotinylated peptides are readily purified by binding to immobilized avidin beads ^{[1][2][3]} .
In Vitro	FP-biotin has good reactivity with human AChE and BChE despite its large biotin group. FP-biotin is suitable for the proposed task of identifying organophosphorus toxicants reactive proteins ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Schopfer LM, et al. Reaction kinetics of biotinylated organophosphorus toxicant, FP-biotin, with human acetylcholinesterase and human butyrylcholinesterase. *Chem Res Toxicol.* 2005;18(4):747-754.
- [2]. Baggelaar MP, et al. Chemical Proteomics Maps Brain Region Specific Activity of Endocannabinoid Hydrolases. *ACS Chem Biol.* 2017;12(3):852-861.
- [3]. Grigoryan H, et al. Covalent binding of the organophosphorus agent FP-biotin to tyrosine in eight proteins that have no active site serine. *Chem Biol Interact.* 2009;180(3):492-498.

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

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