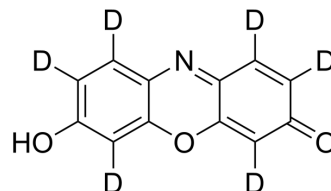


Resorufin-d6

Cat. No.:	HY-123533S
CAS No.:	1196157-65-9
Molecular Formula:	C ₁₂ HD ₆ NO ₃
Molecular Weight:	219.23
Target:	Reactive Oxygen Species
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Resorufin-d6 (NSC 12097-d6) is the deuterium labeled Resorufin. Resorufin (NSC 12097) is a highly fluorescent pink dye for the detection of ROS/RNS and a second analyte ^[1] .
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019;53(2):211-216.
- [2]. Odyniec ML, et al. 'AND'-based fluorescence scaffold for the detection of ROS/RNS and a second analyte. *Chem Commun (Camb)*. 2018 Jul 26;54(61):8466-8469.

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

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