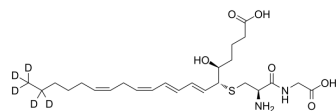


Leukotriene D4-d5

Cat. No.:	HY-113456S
CAS No.:	1240398-17-7
Molecular Formula:	C ₂₅ H ₃₅ D ₅ N ₂ O ₆ S
Molecular Weight:	501.69
Target:	Drug Metabolite; Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Solution, -20°C, 2 years



BIOLOGICAL ACTIVITY

Description	Leukotriene D4-d ₅ is the deuterium labeled Leukotriene D4. Leukotriene D4 is one of the constituents of slow-reacting substance of anaphylaxis (SRS-A) produced by the metabolism of LTC ₄ by γ-glutamyl transpeptidase. Leukotriene D4 is the first cysteinyl-leukotriene metabolite of LTC ₄ . Leukotriene D4-induced bronchoconstriction and enhanced vascular permeability contribute to the pathogenesis of asthma and acute hypersensitivity.
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.

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

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