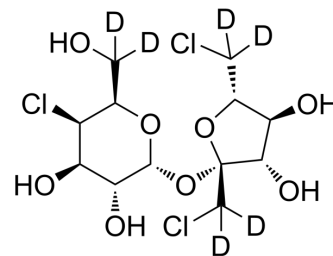


Sucralose-d₆

Cat. No.:	HY-N0614S
CAS No.:	1459161-55-7
Molecular Formula:	C ₁₂ H ₁₃ D ₆ Cl ₃ O ₈
Molecular Weight:	403.67
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Sucralose-d ₆ is deuterium labeled Sucralose. Sucralose (E955; Trichlorosucrose) is a non-nutritive artificial sweetener and sugar substitute. Sucralose can activate a conserved neural fasting response and thereby exerts an appetite-stimulating effect in rodents[1][2].
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]. M S, et al. Sucralose administered in feed, beginning prenatally through lifespan, induces hematopoietic neoplasias in male swiss mice. *Int J Occup Environ Health.* 2016 Jan;22(1):7-17.
- [3]. Nabanita Kundu, et al. Sucralose promotes accumulation of reactive oxygen species (ROS) and adipogenesis in mesenchymal stromal cells. *Stem Cell Res Ther.* 2020 Jun 26;11(1):250.

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

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