

Product Data Sheet

Product Name: Sucralose-d6

Cat. No.: GC48112

Chemical Properties

Cas. No. 1459161-55-7

SMILES Cl[C@@H]1[C@H](O)[C@@H](O)[C@@H](O[C@@]2(C([2H])([2H])Cl)[C@@H](O)[C@H](O)[C@@H](C([2H])([2H])Cl)O2)O[C@@H]1C([2H])([2H])O

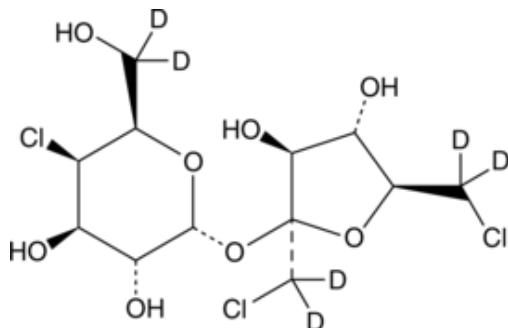
Formula C₁₂H₁₃Cl₃D₆O₈ M.Wt 403.7

Solubility Methanol: Slightly Soluble, Water: Slightly Soluble Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

Sucralose-d₆ contains six deuterium atoms. It is intended for use as an internal standard for the quantification of sucralose by GC- or LC-MS.^{1,2} Sucralose is a non-caloric chlorinated disaccharide used as a sugar alternative that is not metabolized by humans.³ Excreted sucralose collects in wastewater and is considered a pollutant.^{1,2}

1. Wu, M., Qian, Y., Boyd, J.M., et al. Direct large volume injection ultra-high performance liquid chromatography-tandem mass spectrometry determination of artificial sweeteners sucralose and

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

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acesulfame in well water J. Chromatogr. A. 1359156-161 (2014) 2. Ferrer, I., Zweigenbaum, J.A., and Thurman, E.M. Analytical methodologies for the detection of sucralose in water Anal. Chem. 85(20)9581-9587 (2013) 3. Magnuson, B.A., Roberts, A., and Nestmann, E.R. Critical review of the current literature on the safety of sucralose Food. Chem. Toxicol. 106(Pt A)324-355 (2017)

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