

Product Data Sheet

Product Name: Cyclamic Acid-d11

Cat. No.: GC71665

Chemical Properties

Cas. No. 1215770-73-2

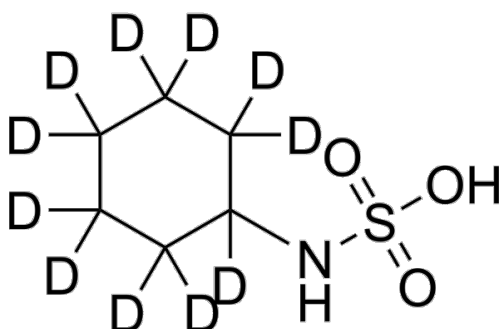
Formula $C_6H_2D_{11}NO_3S$ M.Wt 190.31

Solubility H_2O : 100 mg/mL (525.46 mM; Need ultrasonic and warming) Storage $-20^{\circ}C$

General tips For obtaining a higher solubility , please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ 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

Cyclamic Acid-d11 is the deuterium labeled Cyclamic acid[1]. Cyclamic acid (Cyclohexylsulfamic acid) is one of the most widely used artificial sweeteners in food and pharmaceuticals[2].

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].

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

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References:

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Leban I, et, al. Structures of artificial sweeteners--cyclamic acid and sodium cyclamate with other cyclamates. *Acta Crystallogr B*. 2007 Jun;63(Pt 3):418-25.

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