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Zuschläge

- Mindermengenzuschlag
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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

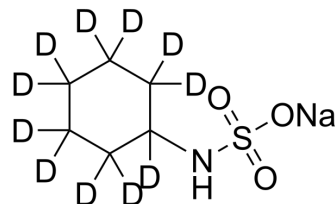
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Cyclamic acid-d₁₁ sodium

Cat. No.:	HY-W014839S
Molecular Formula:	C ₆ HD ₁₁ NNaO ₃ S
Molecular Weight:	212.29
Target:	Isotope-Labeled Compounds; Necroptosis; Apoptosis
Pathway:	Others; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Cyclamic acid-d₁₁ (Sodium cyclamate-d₁₁) sodium is deuterium labeled Cyclamic acid (sodium). Cyclamic acid sodium (Sodium cyclamate) is a commonly used sweetener. Cyclamic acid sodium is toxic to osteoblasts and can inhibit cell proliferation, induce apoptosis and reduce cell mineralization. Cyclamic acid sodium causes focal necrosis of bladder organs in rats in vitro, which can promote bladder cancer, but some studies have shown that low doses of Cyclamic acid sodium have no carcinogenic effect. In addition, Cyclamic acid sodium has no effect on insulin and glucagon secretion induced by arginine^{[1][2][3][4][5][6]}.

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.
- [3]. Knowles MA, Jani H, Hicks RM. Induction of morphological changes in the urothelium of cultured adult rat bladder by sodium saccharin and sodium cyclamate. *Carcinogenesis*. 1986 May;7(5):767-74.
- [4]. Chen Z, et al. Toxicity of food sweetener-sodium cyclamate on osteoblasts cells. *Biochem Biophys Res Commun*. 2019 Jan 8;508(2):507-511.
- [5]. Brantom PG, et al. Long-term toxicity of sodium cyclamate in mice. *Food Cosmet Toxicol*. 1973 Oct;11(5):735-46.
- [6]. Usami M, et al. Effect of cyclamate sodium, saccharin sodium and stevioside on arginine-induced insulin and glucagon secretion in the isolated perfused rat pancreas. *Horm Metab Res*. 1980 Dec;12(12):705-6.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA