

D-Glucosamine hydrochloride Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: D-Glucosamine hydrochloride

Catalog No.: CFN99194

Cas No.: 66-84-2

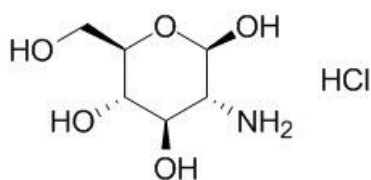
Purity: >=98%

M.F: C₆H₁₃NO₅.HCl

M.W: 215.63

Physical Description: Powder

Synonyms: 2-Desoxy-2-amino-D-glucose hydrochloride.



[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Synthetic precursor compounds;
4. Intermediates & Fine Chemicals;
5. Others.

[Source]

Present in mucopolysaccharides and in polysaccharides found in *bacteria, fungi, higher plants*.

[Biological Activity or Inhibitors]

D-Glucosamine hydrochloride (GlcN67HCl) is an endogenous amino monosaccharide synthesized from glucose that is useful in the treatment of joint diseases in both humans and animals. [1]

Fucoxanthin is an effective anti-arthritis agent through an antiinflammation mechanism, fucoxanthin may enhance therapeutic effect of glucosamine hydrochloride on rat arthritis through mechanism of antiinflammation.[2]

D-glucosamine hydrochloride has antimicrobial effect on the common 21 strains of food spoilage microorganisms, it could as preservative agent was used to preserve nature eleo juice.[3]

D-Glucosamine Hydrochloride has antitumor effects. [4]

D-glucosamine hydrochloride induces cell apoptosis by blocking of cell-cycle.[5]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[6]

Mobile phase: Methanol -H₂O-Acetic acid=10: 89.6: 0.04;

Flow rate: 1.2 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 254 nm.

[Storage]

2-8°C, Protected from air and light, refrigerate or freeze.

[References]

[1] Osaki T, Azuma K, Kurozumi S, *et al. Mar. Drugs*, 2012, 10(8):1873-82.

[2] Gong D, Chu W, Jiang L, *et al. Phytotherapy Research Ptr*, 2014, 28(7):1054-63.

[3] Chen X. *Fisheries Science*, 2001, 18(2):14-5.

[4] Li Y M , Tang M Y, Xia W. *Chinese Journal of Natural Medicines*, 2003, 1(4):237-9.

[5] Cao X M, Zhang Z Z, Wang J. *Chinese Journal of Marine Drugs*, 2008, 27(6):20-5.

[6] Liang Z, Leslie J, Adebowale A, *et al.* *J. Pharmaceut. Biomed.* , 1999, 20(5):807-14.

[Contact]

Address:

S5-3 Building, No. 111, Dongfeng Rd.,
Wuhan Economic and Technological Development Zone,
Wuhan, Hubei 430056,
China

Email: info@chemfaces.com

Tel: +86-27-84237783

Fax: +86-27-84254680

Web: www.chemfaces.com

Tech Support: service@chemfaces.com