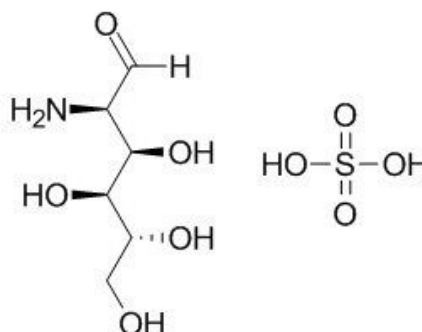


Glucosamine sulfate Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Glucosamine sulfate**Catalog No.:** CFN99193**Cas No.:** 29031-19-4**Purity:** >=98%**M.F:** C₆H₁₅NO₉S**M.W:** 277.25**Physical Description:** Powder**Synonyms:** D-Glucosamine Sulphate; Bis(2-ammonio-2-deoxy-D-glucose) sulfate;
2-Amino-2-deoxy-beta-D-glucopyranose sulfate.

[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]

Glucosamine sulfate can stimulate proteoglycan synthesis by chondrocytes and has mild anti-inflammatory properties, it is therefore as effective as ibuprofen on symptoms of knee osteoarthritis (OA), suggests that glucosamine sulfate as a safe symptomatic Slow Acting Drug for OA.^[1]

Glucosamine sulfate can modulate the levels of aggrecan and matrix metalloproteinase-3 synthesized by cultured human osteoarthritis articular chondrocytes.^[2]

Glucosamine sulfate can reduce osteoarthritis progression in postmenopausal women with knee osteoarthritis. ^[3]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[4]

Mobile phase: CH₃COONa·3H₂O-CH₃OH=90:10;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 340 nm.

[Storage]

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

[References]

[1] Müller-Fassbender H, Bach G L, Haase W, *et al.* *Osteoarthritis Cartilage*, 1994 Mar; 2(1):61-9.

[2] Dodge G R, Jimenez S A. *Osteoarthritis Cartilage.*, 2003 Jun; 11(6):424-32.

[3] Bruyere O, Pavelka K, Rovati L C, *et al.* *Menopause.*, 2004 Mar-Apr; 11(2):138-43.

[4] Chu L M, Xu JG, Huo L R. *Journal of Pediatric Pharmacy*, 2012, 18(3):40-2.

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