



LKT Laboratories, Inc.

Glucosamine Hydrochloride

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Product Information

Product ID G4580

CAS No. 66-84-2

Chemical Name 2-Amino-2-deoxy-D-glucose hydrochloride

Synonym D-Glucosamine HCl, 2-Amino-2-deoxy-D-glucopyranose hydrochloride, Chitosamine hydrochloride

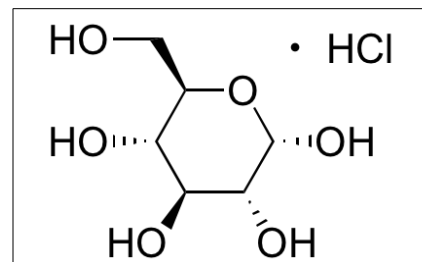
Formula $C_6H_{13}NO_5 \cdot HCl$

Formula Wt. 215.6

Melting Point 190-194°C

Purity ≥96%

Solubility Soluble in water.



Bulk quantities available upon request

Product ID	Size
G4580	25 g
G4580	100 g
G4580	500 g

Store Temp Ambient

Ship Temp Ambient

Description Glucosamine is an endogenous amino sugar precursor to glycosylated protein and lipid formation; it is used in the making of cartilage. Glucosamine improves joint function and is often found in dietary supplements. Glucosamine exhibits anticancer and anti-fibrotic activities. In prostate cancer cells, glucosamine decreases N-glycosylation of gp130, suppressing binding of IL-6, phosphorylation of JAK2, SHP2, and STAT3, and cellular proliferation. Additionally, glucosamine decreases TGF-β1-induced expression of collagen I, fibronectin, and αSMA, inhibits phosphorylation of Smad2/3, and suppresses the development of renal fibrosis in vivo.

References Chesnokov V, Gong B, Sun C, et al. Anti-cancer activity of glucosamine through inhibition of N-linked glycosylation. *Cancer Cell Int.* 2014 May 28;14:45. PMID: 24932134.

Park J, Lee SY, Ooshima A, et al. Glucosamine hydrochloride exerts a protective effect against unilateral ureteral obstruction-induced renal fibrosis by attenuating TGF-β signaling. *J Mol Med (Berl).* 2013 Nov;91(11):1273-84. PMID: 24072041.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.