

Glucosamine (hydrochloride)

Catalog No: tcsc4919



Available Sizes

Size: 50mg



Specifications

CAS No:

66-84-2

Formula:

$C_6H_{14}ClNO_5$

Pathway:

Autophagy;Metabolic Enzyme/Protease

Target:

Autophagy;HIF/HIF Prolyl-Hydroxylase

Purity / Grade:

>98%

Solubility:

DMSO : 6.2 mg/mL (28.75 mM; Need ultrasonic); H2O : \geq 34 mg/mL (157.68 mM)

Alternative Names:

D-(+)-Glucosamine hydrochloride;Chitosamine hydrochloride

Observed Molecular Weight:

215.63

Product Description

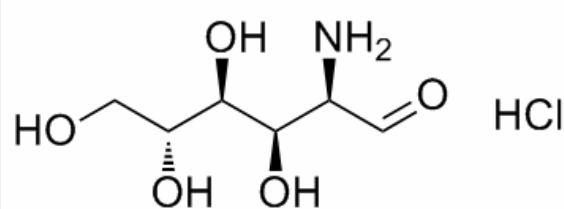
Glucosamine (hydrochloride) is a natural product.

IC50 value:

Target:

In vitro: Glucosamine hydrochloride exhibited dose-dependent DPPH antioxidant activity [1]. Short-term (4 h) glucosamine hydrochloride treatment inhibited HIF-1 α at the protein level, decreased phosphorylation of p70S6K and S6, translation-related proteins [2]. In the obstructed kidneys and TGF- β 1-treated renal cells, glucosamine hydrochloride significantly decreased renal expression of α -smooth muscle actin, collagen I, and fibronectin [3].

In vivo:



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!