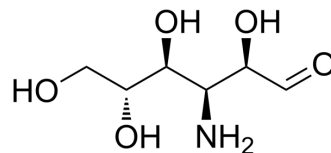


## Kanosamine

Cat. No.:	HY-129260
CAS No.:	576-44-3
Molecular Formula:	C <sub>6</sub> H <sub>13</sub> NO <sub>5</sub>
Molecular Weight:	179.17
Target:	Fungal
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

Kanosamine (3-Amino-3-deoxyglucose) is an antibiotic against *Saccharomyces cerevisiae* and human pathogenic fungi *Candida albicans*. Kanosamine exhibits antifungal activity through inhibition of cell wall synthesis and inhibition of GlcN-6-P synthase with phosphorylated kanosamine-6-phosphate in cytoplasm<sup>[1][2]</sup>.

### REFERENCES

[1]. Janiak AM, et al., Mechanism of antifungal action of kanosamine. *Med Mycol.* 2001 Oct;39(5):401-8.

[2]. Iwai Y, Tet al., Studies on bacterial cell wall inhibitors. III. 3-amino-3-deoxy-D-glucose, an inhibitor of bacterial cell wall synthesis. *Biochim Biophys Acta.* 1977 Jun 23;498(1):223-8.

**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](mailto:tech@MedChemExpress.com)

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