



LKT Laboratories, Inc.

Hygromycin B

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Product Information

Product ID H9726

CAS No. 31282-04-9

Chemical Name

Synonym

Formula $C_{20}H_{37}N_3O_{13}$

Formula Wt. 527.52

Melting Point

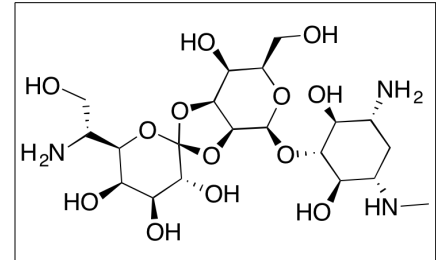
Purity $\geq 95.0\%$

Solubility

Store Temp Ambient

Ship Temp Ambient

Description Hygromycin B is an antibiotic that also displays antiviral activity. Hygromycin binds the 30S ribosomal subunit, inhibiting protein and RNA synthesis of bacteria or viruses; it induces misreadings at multiple steps in protein translation and suppresses translocation. In animal models, hygromycin B allows translation to occur but prevents formation of viral antigen by *Leishmania* and, separately, prevents infection by murine hepatitis virus.



Bulk quantities available upon request

Product ID	Size
H9726	50 mg
H9726	100 mg
H9726	250 mg
H9726	1 g

References Brodersen DE, Clemons WM Jr, Carter AP, et al. The structural basis for the action of the antibiotics tetracycline, pactamycin, and hygromycin B on the 30S ribosomal subunit. *Cell*. 2000 Dec 22;103(7):1143-54. PMID: 11163189.

Ro YT, Scheffter SM, Patterson JL. Hygromycin B resistance mediates elimination of Leishmania virus from persistently infected parasites. *J Virol*. 1997 Dec;71(12):8991-8. PMID: 9371555.

Macintyre G, Woods DE, Anderson R. Hygromycin B inhibits synthesis of murine coronavirus RNA. *Antimicrob Agents Chemother*. 1991 Dec;35(12):2630-3. PMID: 1667257.

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