

Product Data Sheet

Product Name: Ribostamycin Sulfate

Cat. No.: GC16370

Chemical Properties

Cas. No. 53797-35-6

Chemical Name (2S,3R,4S,5S,6S)-5-amino-2-(aminomethyl)-6-[(1S,2S,3R,4S,6R)-4,6-diamino-2-[(2S,3R,4S,5R)-3,4-dihydroxy-5-(hydroxymethyl)oxolan-2-yl]oxy-3-hydroxycyclohexyl]oxyoxane-3,4-diol;sulfuric acid

SMILES C1C(C(C(C(C1N)OC2C(C(C(C(O2)CN)O)O)N)OC3C(C(C(O3)CO)O)O)O)N.OS(=O)(=O)O

Formula $C_{17}H_{34}N_4O_{10} \cdot H_2O_4S$

M.Wt 552.55

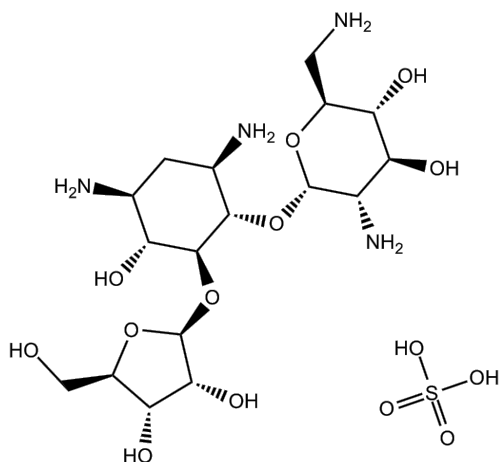
Solubility $\geq 24.6\text{mg/mL}$ in Water

Storage 4°C , protect from light

General tips For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Ribostamycin is a broad-spectrum antimicrobial, inhibits bacterial protein synthesis at the level of 30S and 50S ribosomal subunit binding, also inhibits the chaperone activity of protein disulfide isomerase (PDI), used in pharmacokinetic and nephrotoxicity studies

Caution: Product has not been fully validated for medical applications. For research use only.

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References:

- [1]. Baud H, et al. Ribostamycin, as an intermediate in the biosynthesis of neomycin. J Antibiot (Tokyo). 1977 Sep;30(9):720-3.
- [2]. Hunfeld KP, et al. In vitro activity of mezlocillin, meropenem, aztreonam, vancomycin, teicoplanin, ribostamycin and fusidic acid against Borrelia burgdorferi. Int J Antimicrob Agents. 2001 Mar;17(3):203-8.
- [3]. Horibe T, et al. Ribostamycin inhibits the chaperone activity of protein disulfide isomerase. Biochem Biophys Res Commun. 2001 Dec 21;289(5):967-72.

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