

Pyridindolol

Chemical Properties

CAS No. :	55812-46-9
Formula:	C ₁₄ H ₁₄ N ₂ O ₃
Molecular Weight:	258.277
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Pyridindolol is a bacterial metabolite that has been found in <i>S. alboverticillatus</i> . It inhibits neutral β -galactosidase by 50% under acidic, but not neutral, conditions when used at a concentration of 2 μ g/ml. It is selective for β -galactosidase isolated from bovine liver over β -galactosidases isolated from human, bovine, pig, and rat tissues and sialidases isolated from <i>C. perfringens</i> , <i>Streptomyces</i> , and the H3N2 strain of influenza virus (IC ₅₀ s = >250 μ g/ml for all). ^{1,2}
Targets(IC ₅₀)	Others, Endogenous Metabolite

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.8718 mL	19.3588 mL	38.7177 mL
5 mM	0.7744 mL	3.8718 mL	7.7435 mL
10 mM	0.3872 mL	1.9359 mL	3.8718 mL
50 mM	0.0774 mL	0.3872 mL	0.7744 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Aoyagi, T., Kumagai, M., Hazato, T., et al. Pyridindolol, a new β -galactosidase inhibitor produced by actinomycetes. *J. Antibiot. (Tokyo)* 28(7)555-557(1975)

Kumagai, M., Aoyagi, T., and Umezawa, H. Inhibitory activity of pyridindolol on β -galactosidase. *J. Antibiot. (Tokyo)* 29(7)696-703(1976)

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