Puromycin dihydrochloride （**Synonyms:** CL13900 dihydrochloride）

Catalog #: EBC51170

Biological Activity

Chemical Name	*(2S)-2-amino-N-[(2S,3S,4R,5R)-5-[6-(dimethylamino)purin-9-yl]-4-hydroxy-2-(hydroxymethyl)oxolan-3-yl]-3-(4-methoxyphenyl)propanamide;dihydrochloride*
Application	Puromycin dihydrochloride is an antibiotic used for selection and maintenance of cell lines expressing a transfected pac gene
Target & IC$_{50}$	Aminoglycoside
CAS No.	58-58-2
Purity	≥98.0%
Molecular Weight	544.43
Molecular Formula	$C_{22}H_{29}N_7O_5 \cdot 2HCl$
Shipping	Gel Pack
Storage	Store at -20° C
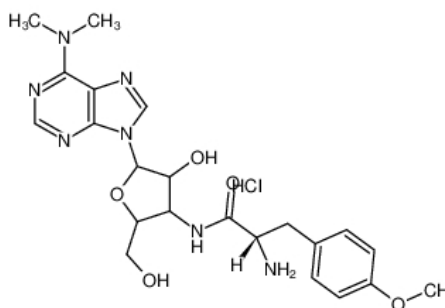
Solubility

DMSO: 50 mg/mL (20 mM) ; Water: 50 mg/mL (20 mM)

PS: < 1 mg/ml refers to the product insoluble

Preparing Stock Solutions

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	1.8368 ml	9.1839 ml	18.3678 ml
5 mM	0.3674 ml	1.8368 ml	3.6736 ml
10 mM	0.1837 ml	0.9184 ml	1.8368 ml
50 mM	0.0367 ml	0.1837 ml	0.3674 ml

Description

Puromycin dihydrochloride, also known as Stylomycin hydrochloride, is an aminonuclease antibiotic used for selection and maintenance of cell lines expressing a transfected pac gene, whose product, puromycin-N-acetyl-transferase, inactivates puromycin via acetylation. Puromycin dihydrochloride has been cell culture tested and is recommended for selection of stably transfected cells following transfection with Santa Cruz Biotechnology shRNA or Lentiviral particles. Puromycin dihydrochloride is an antibiotic substance produced by the soil actinomycete Streptomyces alboniger which induces apoptosis in cells by interfering with RNA function, leading to inhibition of protein synthesis. Puromycin dihydrochloride is thought to act as an acyl-tRNA analogue causing premature chain termination. Toxic to both eukaryotic and prokaryotic cells, Puromycin dihydrochloride has also been shown to arrest cells in G2/M phase.

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