

## Product Data Sheet

Product Name: Puromycin (CL13900)  
Cat. No.: GC32186

### Chemical Properties

Cas. No. 53-79-2

SMILES OC[C@@H]1[C@@H](NC([C@@H](N)CC2=CC=C(OC)C=C2)=O)[C@H]([C@H](N3C=NC4=C3N=CN=C4N(C)C)O1)O

Formula C<sub>22</sub>H<sub>29</sub>N<sub>7</sub>O<sub>5</sub> M.Wt 471.51

Solubility Soluble in DMSO Storage Store at -20°C

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

Puromycin 2HCl (CL13900) is an aminonucleoside antibiotic, which acts as a protein synthesis inhibitor.

The antibiotic puromycin is produced by the actinoniyce, Streptornyces alboniger, and has been used as a tool for studying protein synthesis in a number of systems. [1] Puromycin can be used for the selection of recombinant cells from noncultured cells. [2]

Puromycin (aminonucleoside) inhibits protein synthesis leading to proteinuria & glomerulosclerosis/nephrosis.[4]

2HCl Puromycin 2HCl CL13900

Streptornyces alboniger [1] [2]

/ [4]

**Caution: Product has not been fully validated for medical applications. For research use only.**  
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[1] Darken MA. Pharmacol Rev. 1964, 16, 223-243. [2] Watanabe S, et al. Biol Reprod. 2005, 72(2), 309-315. [3] Chan C, et al. Pharmacol Res Perspect. 2017 Oct;5(5):e00359.

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