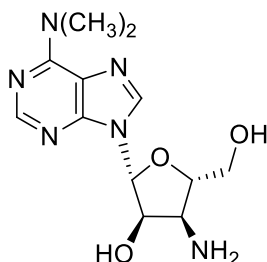


Puromycin aminonucleoside

Code No.: **BIA-P1222**

Pack sizes: **10 mg, 50 mg**



Synonyms : 3'-Dimethylamino-3'-deoxyadenosine

Specifications

CAS #	: 58-60-6
Molecular Formula	: C ₁₂ H ₁₈ N ₆ O ₃
Molecular Weight	: 294.3
Source	: Semi-synthetic
Appearance	: White powder
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Moderate water solubility.

Application Notes

Puromycin aminonucleoside is a semi-synthetic derivative of puromycin which lacks the methoxyphenylalanyl moiety. Puromycin aminonucleoside is the key intermediate in the synthesis of semi-synthetic analogues of puromycin. It does not inhibit protein synthesis or induce apoptosis, but exhibits antitumor properties. Puromycin aminonucleoside-induced nephrosis is a well-described model of human idiopathic nephrotic syndrome, suppressing integrin expression in cultured glomerular epithelial cells.

References

1. Puromycin, synthetic studies VII. Partial synthesis of amino acid analogs. Baker B.R., J. Am. Chem. Soc. 1954, 76, 2838.
2. Experimental nephrotic syndrome induced in rats by aminonucleoside: Renal lesions and body electrolyte composition. Frenk S. et al., J. Proc. Soc. Exp. Biol. Med. 1955, 89, 424.
3. Puromycin aminonucleoside suppresses integrin expression in cultured glomerular epithelial cells. Krishnamurti U. et al., J. Am. Soc. Nephrol. 2001, 12, 758.