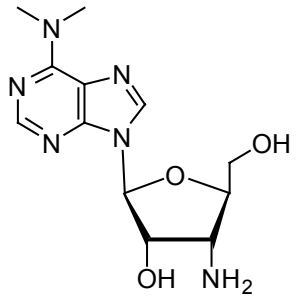
bioaustralis
fine chemicals

PRODUCT DATA SHEET

Puromycin aminonucleoside

Code: **BIA-P1222**

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



Synonyms : **3'-Dimethylamino-3'-deoxyadenosine**

Specifications

CAS #	:	**58-60-6**
Molecular Formula	:	**$C_{12}H_{18}N_6O_3$**
Molecular Weight	:	**294.3**
Source	:	***Streptomyces alboniger*, Semi-synthetic**
Appearance	:	**White powder**
Purity	:	**> 98%**
Long Term Storage	:	**- 20°C**
Solubility	:	**Soluble in water.**

Application Notes

Puromycin aminonucleoside is a semi-synthetic derivative of puromycin lacking 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 expression of 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.

Building C, 28-54 Percival Road, Smithfield NSW 2164, AUSTRALIA
Tel: 61 2 9757 4515 Fax: 61 2 9757 2586 Web: www.bioaustralis.com Email: info@bioaustralis.com