



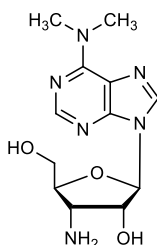
Catalog # 10-2101
Puromycin aminonucleoside

58-60-6

3'-Amino-3'-deoxy-N⁶,N⁶-dimethyladenosine

PAN

Lot # X101703



The nucleoside moiety of puromycin which does not inhibit protein synthesis or induce apoptosis¹. It acts as a glomerular epithelial cell toxin² and as such is a useful tool for producing animal models of nephropathy^{3,4}, or puromycin aminonucleoside nephrosis (1-2.5 mg/100g rat body weight)⁵. Active *in vivo*.

- 1) Chow *et al.* (1995), *Reevaluation of the role of de novo protein synthesis in rat thymocyte apoptosis*; Exp. Cell Res., **216** 149
- 2) Krishnamurti *et al.* (2001), *Puromycin aminonucleoside suppresses integrin expression in cultured glomerular epithelial cells*; J. Am. Soc. Nephrol., **12** 758
- 3) Egashira *et al.* (2006), *Tryptophan-niacin metabolism in rat with puromycin aminonucleoside-induced nephrosis*; Int. J. Vitam. Nutr. Res., **76** 28
- 4) Hagiwara *et al.* (2006), *Mitochondrial dysfunction in focal segmental glomerulosclerosis of puromycin aminonucleoside nephrosis*; Kidney Int., **69** 1146
- 5) Lowenborg *et al.* (2000), *Glomerular function and morphology in puromycin aminonucleoside nephropathy in rats*; Nephrol. Dial. Transplant, **15** 1547

PHYSICAL DATA

Molecular Weight:	294.32
Molecular Formula:	C ₁₂ H ₁₈ N ₆ O ₃
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	Water (up to 50 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 1 year from the date of purchase. Solutions in distilled water may be stored at -20°C for up to 2 months.

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Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

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