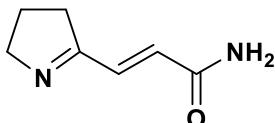


PRODUCT DATA SHEET

Cyclamidomycin

(Nucleoside Diphosphate Kinase (NDPK) inhibitor)



Synonyms: Desdanine, Pyracrimycin A

Specifications

| | |
|-------------------|--|
| Code No. | : 01541 |
| CAS# | : 35663-85-5 |
| Molecular Formula | : C ₇ H ₁₀ N ₂ O |
| Molecular Weight | : 138.170 |
| Source | : <i>Streptomyces</i> sp. MA130-A1 |
| Appearance | : Powder |
| Purity | : >98% (HPLC) |
| Long Term Storage | : at -20 °C |
| Solubility | : Soluble in H ₂ O Insoluble in MeOH, Hexane |

The chemical structure was confirmed by NMR and HRMS.

Application Notes

Cyclamidomycin is obtained from the culture filtrate of *Streptomyces* sp. MA130-A1.¹⁾ It inhibits the growth of Gram-positive and Gram-negative bacteria and shows inhibition of nucleoside diphosphate kinase of *Escherichia coli*.¹⁻²⁾ It inhibits plaque formation of male-specific coliphages and suppress the multiplication of both RNA phage Q β and filamentous DNA phage f1 at the concentration of 3.13-6.26 μ g/ml.³⁾

References

- 1) A new antibiotic, cyclamidomycin. Takahashi S, et al. *J Antibiot*. 1971 **24**(12) 902-903.
- 2) Cyclamidomycin (desdanine), an inhibitor of nucleoside diphosphokinase of *Escherichia coli*. Saeki T, et al. *J Antibiot*. 1972 **25**(6) 343-349.
- 3) Inhibition of coliphage multiplication and R plasmid transfer by desdanine. Tanida S, et al. *J Antibiot*. 1976 **29**(7) 754-758