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ProductInformation

6-Thioguanine

Product Number **A 4882** Store at Room Temperature

Product Description

Molecular Formula: $C_5H_5N_5S$ Molecular Weight: 167.2 CAS Number: 154-42-7 λ_{max} : 347, 258 nm¹ Extinction Coefficient: E^{mM} 20.9 (347 nm), 8.1 (258 nm) 0.1 M HCl)

This product is most commonly used to generate DNA analogues. After incorporation into DNA, this product will inhibit DNA synthesis and can be used to inhibit the growth of neoplasms.²

For cell culture applications, please refer to the tissue culture tested product (Product No. A 4660).

Precautions and Disclaimer

For Laboratory Use Only. Not for drug, household or other uses.

Preparation Instructions

This product is soluble in 1 M NaOH (50 mg/ml), yielding a clear, faint yellow solution. The product is also very slightly soluble in ethanol, insoluble in water and chloroform.³

References

- 1. J. Am. Chem. Soc., 77, 1676 (1955).
- Data for Biochemical Research, 3rd ed., Dawson, R. M. C., et al., Oxford University Press (New York, NY: 1986), p. 275.
- 3. Martindale The Extra Pharmacopoeia, 30th ed., Reynolds, J. E. F., ed., The Pharmaceutical Press (London, England: 1993), p. 502.

MWM/RXR 12/02

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