

Hypoxanthine

Cat. No. CSUB-0822

Lot. No. (See product label)

Introduction

Description

Hypoxanthine can be used as a marker for energy perturbation in hypoxia/ischemia and is structurally related to 6-mercaptopurine. The compound has been used in studies as an indicator, along with uric acid and allantoin, of in vivo free radical reactions. To understand its biological implications, hypoxanthine has been used in DNA studies to investigate the destabilizing effect it has on DNA duplexes containing hypoxanthine as a base, in a gas phase versus a liquid phase. Hypoxanthine has also been used in studies along with 8-oxoguanine nucleotides to investigate their interaction with human DNA pol α (DNA polymerase alpha) and DNA polymerase I from *Bacillus stearothermophilus*.

Applications

A marker for energy perturbation in hypoxia/ ischemia

Synonyms

1,9-Dihydro-6H-purin-6-one; 3H-Purin-6-ol; 6-Hydroxy-1H-purine; 6-Hydroxypurine; 6-Oxopurine; Hypoxanthine enol; NSC 129419; NSC 14665; Purin-6-ol; Sarcine; Sarkin; Sarkine; USP Didanosine Related Compound A

Product Information

Form	Solid
CAS No.	68-94-0
Molecular Formula	C ₅ H ₄ N ₄ O
Molecular Weight	136.11
Purity	>99%
Solubility	Does not mix appreciably with water (1:1400). Small octahedra crystals from water.
Substrates	β -galactosidase
Refractive Index	1.72 (Predicted)

Storage and Shipping Information

Storage	Store at room temperature
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