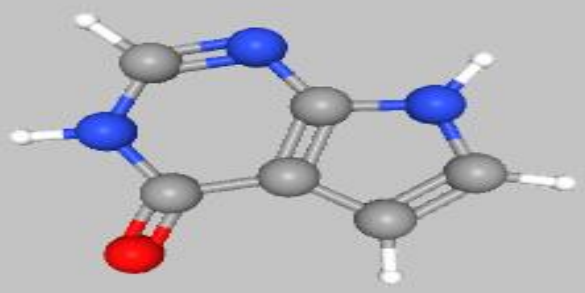


PRODUCT IN FOCUS

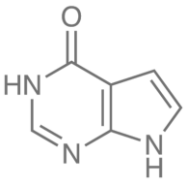
EXSYN
ESSENTIAL CHEMISTRY

7-Deazahypoxanthine

INTRODUCTION

The fused heterocyclic formed by fusion of pyrimidine and pyrrole rings, is a solid compound with a chromatographic purity of 98%.

It displays keto and enol isomers as is reflected in its synonyms and is an important biochemical reagent and a vital nucleobase.

Synonyms	3,7-Dihydro pyrrole[2,3] pyrimidine-4-one Pyrrolo[2,3-d]pyrimidin-4-ol 7H-Pyrrolo[2,3-d]pyrimidin-4-ol
CAS no.	3680-71-5
EINECS no.	640-613-6
Molecular formula	$C_6H_5N_3O$
Structure	
Molecular weight	135.12

APPLICATIONS

The product as such has medicinal properties and its therapeutic use is cited as prodrug of thymidine phosphorylase inhibitor. Besides, it also finds use as a building block in the synthesis of API's such as:

API	Therapeutic Category
Clofarabine	Anti-neoplastic, Anti-cancer
Ruxolitinib	Anti-cancer
Tofacitinib	Anti-cancer
Baricitinib	Anti-cancer

It is also used in the manufacture of a series of value-added intermediates such as:

Intermediate	CAS no.
4-Chloropyrrolo[2,3-d]pyrimidine	3680-69-1
1,7-Dihydropyrrolo[2,3-d]pyrimidine-4-thione	1421-27-8
4-Chloro-7-((2-(trimethylsilyl)ethoxy)methyl)-7H-pyrrolo[2,3-d]pyrimidine	941685-26-3
4-chloro-7-(phenylsulfonyl)-7h-pyrrolo[2,3-d]-Pyrimidine	186519-89-1

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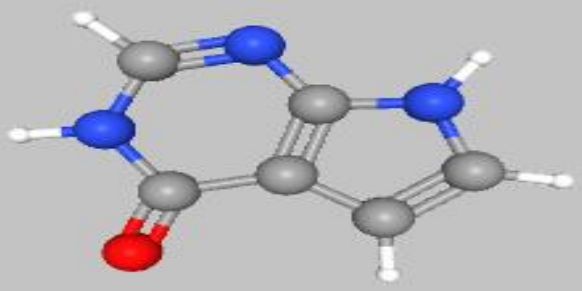

PRODUCT IN FOCUS

7-Deazahypoxanthine

SPECIFICATIONS

Test	Unit	Specification
Appearance	-	White to Brown Solid
Identification		
1H NMR	-	Conforms to the structure
LCMS	-	Conforms to the structure
FTIR	-	Conforms to the structure
Purity by HPLC	%	NLT 98
Moisture	Wt %	NMT 0.5
Largest unspecified impurity	%	NMT 0.5

STORAGE

The product is stored at ambient temperature.

ExSyn offers this compound on commercial scale and welcomes enquiries. No matter the quantity you need, our exceptional quality and service will make ExSyn your supplier of choice! If you need any additional information or SDS, please get in touch with us.

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