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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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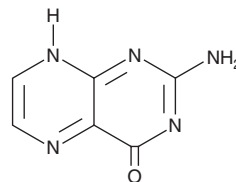
PRODUCT INFORMATION



Pterin

Item No. 39503

CAS Registry No.: 2236-60-4
Formal Name: 2-amino-4(3H)-pteridinone
Synonyms: NSC 11540, NSC 18696, NSC 170929
MF: C₆H₅N₅O
FW: 163.1
Purity: ≥95%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years
Item Origin: Synthetic



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Pterin is supplied as a solid. A stock solution may be made by dissolving the pterin in water. We do not recommend storing the aqueous solution for more than one day. It is soluble in acetonitrile.

Description

Pterin is a pteridine that has been found in *C. croceus* and has antibacterial activity.^{1,2} It reduces the proliferation of, and biofilm production by, *E. coli*, *P. aeruginosa*, and *S. mutans* when used at concentrations of 100 or 150 µg/ml.² Pterin levels are increased in urine samples from patients with breast, lung, colon, or rectal cancer.³

References

1. Descimon, H. Pterins of *Pieridae* (*Lepidoptera*) and their biosynthesis. I. Identification of the main pterins of *Colias croceus* (Fourcroy) and of some other species of *Pieridae*. *Biochimie* **53(3)**, 407-418 (1971).
2. Mahendran, R., Thandeeswaran, M., Kiran, G., *et al.* Evaluation of pterin, a promising drug candidate from cyanide degrading bacteria. *Curr. Microbiol.* **75(6)**, 684-693 (2018).
3. Gamagedara, S., Gibbons, S., and Ma, Y. Investigation of urinary pteridine levels as potential biomarkers for noninvasive diagnosis of cancer. *Clin. Chim. Acta.* **412(1-2)**, 120-128 (2011).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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