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- Trockeneiszuschlag
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PRODUCT INFORMATION



Uric Acid (sodium salt)

Item No. 16219

CAS Registry No.: 1198-77-2

Formal Name: 7,9-dihydro-1H-purine-2,6,8(3H)-trione, monosodium salt

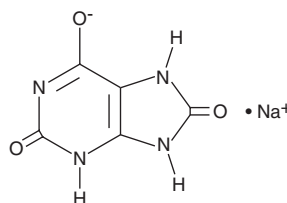
MF: $C_5H_3N_4O_3 \cdot Na$

FW: 190.1

Supplied as: A crystalline solid

Storage: -20°C

Stability: ≥ 2 years



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

Laboratory Procedures

Uric acid (sodium salt) is supplied as a crystalline solid. A stock solution may be made by dissolving the uric acid (sodium salt) in the solvent of choice. Uric acid (sodium salt) is soluble at 25 mg/ml in 1 M NaOH. We do not recommend storing the aqueous solution for more than one day.

Description

Uric acid is a ubiquitous end product of purine metabolism in humans that is mainly excreted in urine, whereas in other mammals it is further metabolized to allantoin by uricase.¹ The final two steps in its production are catalyzed by xanthine oxidase, which generates superoxide.² Uric acid acts as a potent peroxynitrite scavenger and antioxidant.¹⁻³ However, high levels of serum uric acid ($>120 \mu\text{g/ml}$), termed hyperuricemia, are associated with gout, kidney stones, metabolic syndrome, hypertension, renal disease, and cardiovascular disease.^{1,4-7} Uric acid in the form of monosodium urate crystals has been proposed to trigger interleukin-1 β -mediated inflammation by activating the NOD-like receptor protein 3 inflammasome.⁸

References

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3. Hooper, D.C., Spitsin, S., Kean, R.B., *et al.* Uric acid, a natural scavenger of peroxynitrite, in experimental allergic encephalomyelitis and multiple sclerosis. *Proc. Natl. Acad. Sci. USA* **95**, 675-680 (1998).
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6. Heinig, M. and Johnson, R.J. Role of uric acid in hypertension, renal disease, and metabolic syndrome. *Cleve. Clin. J. Med.* **73**(12), 1059-1064 (2006).
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8. Ghaemi-Oskouie, F. and Shi, Y. The role of uric acid as an endogenous danger signal in immunity and inflammation. *Curr. Rheumatol. Rep.* **13**(2), 160-166 (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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