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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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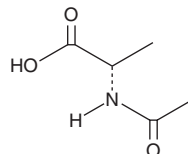
PRODUCT INFORMATION



N-acetyl-L-Alanine

Item No. 37360

CAS Registry No.: 97-69-8
Synonyms: N-Acetylalanine, NSC 186892
MF: C₅H₉NO₃
FW: 131.1
Purity: ≥95%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



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

Laboratory Procedures

N-acetyl-L-Alanine is supplied as a solid. A stock solution may be made by dissolving the N-acetyl-L-alanine in water. We do not recommend storing the aqueous solution for more than one day.

Description

N-acetyl-L-Alanine is an endogenous metabolite.¹⁻³ It decreases IFN- γ production induced by radiation-killed *M. tuberculosis* in natural killer (NK) cells isolated from patients with latent *M. tuberculosis* infection when used at a concentration of 3 μ M.¹ N-acetyl-L-Alanine (3 μ M) also decreases ATP production and glycolytic flux in naïve or radiation-killed *M. tuberculosis*-exposed isolated human NK cells. Brain levels of N-acetyl-L-alanine are decreased in a rat model of diabetic neuropathic pain induced by streptozotocin (STZ; Item No. 13104).² Increased urine levels of N-acetyl-L-alanine are associated with mutations in the gene encoding aminoacylase-1 (ACY1), an enzyme involved in the hydrolysis of N-acetylated proteins.³

References

1. Yang, B., Mukherjee, T., Radhakrishnan, R., et al. HIV-differentiated metabolite N-acetyl-L-alanine dysregulates human natural killer cell responses to *Mycobacterium tuberculosis* infection. *Int. J. Mol. Sci.* **24**, 7267 (2023).
2. Zhang, Q., Li, Q., Liu, S., et al. Decreased amino acids in the brain might contribute to the progression of diabetic neuropathic pain. *Diabetes Res. Clin. Pract.* **176**, 108790. (2021).
3. Sass, J.O., Mohr, V., Olbrich, H., et al. Mutations in ACY1, the gene encoding aminoacylase 1, cause a novel inborn error of metabolism. *Am. J. Hum. Genet.* **78**(3), 401-409 (2006).

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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