



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

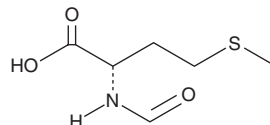
PRODUCT INFORMATION



N-Formylmethionine

Item No. 35594

CAS Registry No.: 4289-98-9
Formal Name: N-formyl-L-methionine
Synonym: NSC 334322
MF: C₆H₁₁NO₃S
FW: 177.2
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-Formylmethionine is supplied as a solid. A stock solution may be made by dissolving the N-formylmethionine in the solvent of choice, which should be purged with an inert gas. N-Formylmethionine is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of N-formylmethionine in these solvents is approximately 2, 12, and 16 mg/ml, respectively.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of N-formylmethionine can be prepared by directly dissolving the solid in aqueous buffers. The solubility of N-formylmethionine in PBS (pH 7.2) is approximately 5 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

N-Formylmethionine is an amino acid encoded by AUG, the start codon for protein synthesis.¹ It is the N-terminal amino acid in the majority of proteins in prokaryotic systems but is commonly removed post-translationally. Levels of N-formylmethionine are positively correlated with the incidence of renal disease, heart failure, coronary artery disease, abdominal aortic aneurysms, chronic obstructive pulmonary disease (COPD), as well as mortality.²

References

1. Pelley, J.W. Protein synthesis and degradation. *Elsevier's Integrated Biochemistry* 147-158 (2007).
2. Cai, N., Gomez-Duran, A., Yonova-Doing, E., et al. Mitochondrial DNA variants modulate N-formylmethionine, proteostasis and risk of late-onset human diseases. *Nat. Med.* **27(9)**, 1564-1575 (2021).

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.

WARRANTY AND LIMITATION OF REMEDY

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 12/12/2022

CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA

PHONE: [800] 364-9897
[734] 971-3335

FAX: [734] 971-3640

CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM