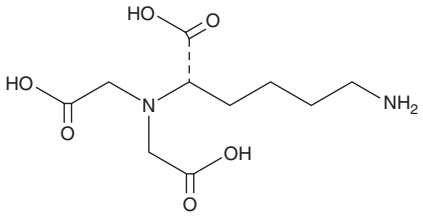
PRODUCT INFORMATION

N^2,N^2-*Bis*(carboxymethyl)-L-lysine

Item No. 46397

CAS Registry No.: 113231-05-3
Synonyms: (S)-N-(5-Amino-1-carboxypentyl) iminodiacetic Acid, AB-NTA, Aminobutyl-NTA, ANTA, N^{α},N^{α}-*Bis*(carboxymethyl)-L-lysine Aminobutyl Nitrilotriacetic Acid
MF: $C_{10}H_{18}N_2O_6$
FW: 262.3
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^2,N^2-*Bis*(carboxymethyl)-L-lysine is supplied as a solid. A stock solution may be made by dissolving the N^2,N^2-*bis*(carboxymethyl)-L-lysine in the solvent of choice, which should be purged with an inert gas.

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^2,N^2-*bis*(carboxymethyl)-L-lysine can be prepared by directly dissolving the solid powder in aqueous buffers. N^2,N^2-*Bis*(carboxymethyl)-L-lysine is sparingly soluble (1-10 mg/ml) in PBS (pH 7.2). We do not recommend storing the aqueous solution for more than one day.

Description

N^2,N^2-*Bis*(carboxymethyl)-L-lysine is a chelating agent.[1,2] It has been used in the surface functionalization of nanoparticles and immobilized on affinity columns for the purification of His-tagged proteins.

References

1. Czechowska, E., Ranoszek-Soliwoda, K., Tomaszewska, E., *et al.* Comparison of the antioxidant activity of catalase immobilized on gold nanoparticles via specific and non-specific adsorption. *Colloids Surf B Biointerfaces* **171**, 707-714 (2018).
2. Liu, G., Fu, T., Han, Y., *et al.* Probing protein-protein interactions with label-free mass spectrometry quantification in combination with affinity purification by spin-tip affinity columns. *Anal. Chem.* **92(5)**, 3913-9322 (2020).

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, 08/28/2026

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