



3050 Spruce Street  
Saint Louis, Missouri 63103 USA  
Telephone (800) 325-5832 (314) 771-5765  
Fax (314) 286-7828  
email: techserv@sial.com  
sigma-aldrich.com

## Product Information

### 1-(4-Aminobenzyl)ethylenediamine - N,N,N',N'-tetraacetic acid

Product Number **A 3473**

Storage Temperature -20 °C

CAS#: 84256-90-6

Synonym: Meares' Reagent; Aminobenzyl-EDTA

#### Product Description

Formula:  $C_{17}H_{23}N_3O_8$

Formula weight: 397.4

1-(4-Aminobenzyl)ethylenediamine-N,N,N',N'-tetraacetic acid is a bifunctional analog of EDTA (ethylenediamine-N,N,N',N'-tetraacetic acid). The aminobenzyl moiety allows attachment of a chelating group (EDTA) to activated carboxylates such as succinimidyl esters, p-nitrophenyl esters, and acid chlorides. It has been used to prepare peptides that chelate metal ions.<sup>1,2</sup> This and other aminobenzyl-EDTA derivatives have been used to design, produce, and evaluate antibodies containing the EDTA group.<sup>3</sup> This reagent may be used to design other biochemical molecules containing a functional chelating group.

#### Precautions and Disclaimer

This product is for laboratory research use only. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

#### Storage/Stability

This product ships on wet ice and it is recommended to store the product at -20 °C. The product as supplied is stable for at least 2 years at -20 °C.

#### References

1. Studer, M., and Meares, C. F., *Bioconjug. Chem.*, **3**, 420-423 (1992).
2. Song, A. I., and Rana, T.M., *Bioconjug. Chem.*, **8**, 249-252 (1997).
3. Chmura, A. J., et al., *Proc. Natl. Acad. Sci. USA*, **98**, 8480-8484 (2001).

AGW/MAM 11/01

Sigma brand products are sold through Sigma-Aldrich, Inc.

Sigma-Aldrich, Inc. warrants that its products conform to the information contained in this and other Sigma-Aldrich publications. Purchaser must determine the suitability of the product(s) for their particular use. Additional terms and conditions may apply. Please see reverse side of the invoice or packing slip.