

Hello Bio, Inc.
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500
F. 609-228-4994

customer-care-usa@m2stage.hellobio.com



DATASHEET

EGTA

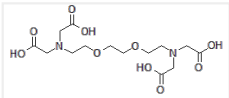
Product overview

Name	EGTA
Cat No	HB4708
Biological description	EGTA is a calcium specific chelator and has lower affinity for magnesium than EDTA. It is commonly used in the buffering of calcium ions in physiological solutions.
Biological action	Reagent
Description	Calcium specific chelator

Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in NaOH (aq)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

Chemical Data

Chemical name	Ethylene glycol-bis(2-aminoethylether)-N,N,N,N-tetraacetic acid
Molecular Weight	380.4
Chemical structure	
Molecular Formula	C ₁₄ H ₂₄ N ₂ O ₁₀
CAS Number	67-42-5
PubChem identifier	6207
SMILES	C(COCCOCCN(CC(=O)O)CC(=O)O)N(CC(=O)O)CC(=O)O
InChi	InChI=1S/C14H24N2O10/c17-11(18)7-15(8-12(19)20)1-3-25-5-6-26-4-2-16(9-13(21)22)10-14(23)24/h1-10H2,(H,17,18)(H,19,20)(H,21,22)(H,23,24)
InChiKey	DEFVIWRASFVYLL-UHFFFAOYSA-N
MDL number	MFCD00004291

References

A simple method for the accurate determination of free [Ca] in Ca-EGTA solutions

Bers DM (1982) Am J Physiol 242(5)

PubMedID [6805332](#)

EGTA purity and the buffering of calcium ions in physiological solutions

Miller DJ *et al* (1984) Am J Physiol 246(1 Pt 1)

PubMedID [6421170](#)

The addition of calcium ion chelator, EGTA to thawing solution improves fertilizing ability in frozen-thawed boar sperm

Okazaki T *et al* (2011) Anim Sci J 82(3)

