

Human ENO3 / beta-enolase Protein (His Tag)



Sino Biological
Biological Solution Specialist

Catalog Number: 14270-H07E

General Information

Gene Name Synonym:

GSD13; MSE

Protein Construction:

A DNA sequence encoding the mature form of human ENO3 (AAH17249.1) (Met1-Lys434) was expressed with a polyhistidine tag at the N-terminus.

Source: Human

Expression Host: E. coli

QC Testing

Purity: > 85 % as determined by SDS-PAGE

Endotoxin:

Please contact us for more information.

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: His

Molecular Mass:

The recombinant human ENO3 consists of 449 amino acids and predicts a molecular mass of 48.8 KDa. It migrates as an approximately 45 KDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile 50mM Tris, 0.1% Brij35, pH 8.0.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

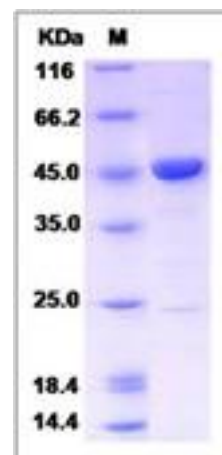
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

ENO3 is one of the three enolase isoenzymes found in mammals. As a homodimer, ENO3 is found in skeletal muscle cells in the adult. A switch from alpha enolase to beta enolase occurs in muscle tissue during development in rodents. Mutations in ENO3 gene can be associated with metabolic myopathies that may result from decreased stability of the enzyme. Two transcripts have been identified for ENO3 gene that differ only in their 5' UTR. ENO3 may play a role in muscle development and regeneration. It appears to have a function in striated muscle development and regeneration.

References

- 1.Peshavaria M, *et al.* (1989) Structure of human muscle (beta) enolase mRNA and protein deduced from a genomic clone. *Nucleic Acids Res.* 17(21):8862.
- 2.Cali L, *et al.* (1990) Nucleotide sequence of a cDNA encoding the human muscle-specific enolase (MSE). *Nucleic Acids Res.* 18(7):1893.
- 3.Peshavaria M, *et al.* (1991) Molecular structure of the human muscle-specific enolase gene (ENO3). *Biochem J.* 275(2):427-33.

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