

Human Profilin 2 / PFN2 Protein (His Tag)



Sino Biological
Biological Solution Specialist

Catalog Number: 14496-H07E

General Information

Gene Name Synonym:

D3S1319E; PFL

Protein Construction:

A DNA sequence encoding the human PFN2 (AAH18049.1) (Met1-Phe140) was expressed with a polyhistidine tag at the N-terminus.

Source: Human

Expression Host: E. coli

QC Testing

Purity: > 90 % 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 PFN2 consists of 155 amino acids and predicts a molecular mass of 16.9 KDa. It migrates as an approximately 16 KDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile 50mM Tris, 10% Glycerol, 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:

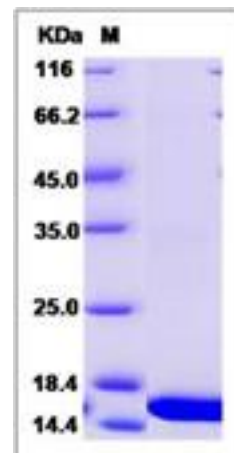
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Profilin 2, also known as PFN2, is a ubiquitous actin monomer-binding protein belonging to the profilin family. It is highly expressed in brain, skeletal muscle and kidney and less strongly in heart, placenta, lung and liver. Profilin 2 binds to actin and affects the structure of the cytoskeleton. At high concentrations, profilin prevents the polymerization of actin, whereas it enhances it at low concentrations. Profilin 2 is thought to regulate actin polymerization in response to extracellular signals. It inhibits the formation of IP3 and DG by binding to PIP2.

References

1. Da Silva. et al., 2003, J Cell Biol. 162 (7): 1267-79. 2. Honore B. et al., 1993, FEBS Lett. 330 (2): 151-5. 3. Joensuu T. et al., 1997, Genomics. 38 (3): 255-63.

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