

Human Iduronate 2-Sulfatase / IDS (His Tag) recombinant protein



Catalog Number: 501095

General Information

Gene Name Synonym

Alpha-L-iduronate sulfate sulfatase; Iduronate 2-sulfatase 42 kDa chain; Iduronate 2-sulfatase 14 kDa chain

Protein Construction

A DNA sequence encoding human IDS precursor (NP_000193.1) (Met 1-Pro 550) was expressed with a C-terminal polyhistidine tag.

Organism

Human

Expression Host

Human Cells

QC Testing

Activity

Measured by its ability to hydrolyze the substrate 4-Nitrocatechol Sulfate (PNCS).

The specific activity is > 1.0 pmoles/min/μg.

Purity

> 87 % as determined by SDS-PAGE

Endotoxin

< 1.0 EU per μg of the protein as determined by the LAL method

Stability

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

Predicted N terminal

Ser 26

Molecular Mass

The secreted recombinant human IDS with the propeptide consists of 536 amino acids after removal of the signal peptide and has a predicted molecular mass of 61 kDa. In SDS-PAGE under reducing conditions, it migrates as several bands with apparent molecular mass between 85-95 kDa due to glycosylation.

Formulation

Lyophilized from sterile PBS, pH 7.4

1. 5 % trehalose and mannitol are added as protectants before lyophilization.

2. Please contact us for any concerns or special requirements.

Usage Guide

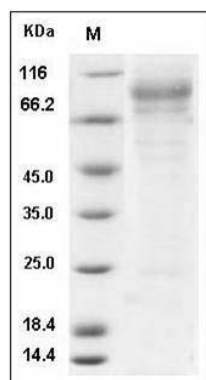
Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

SDS-PAGE



Human Iduronate 2-Sulfatase / IDS Protein (His Tag) SDS-PAGE