

ITIH3 Protein, Human, Recombinant (His)

General Information

Synonyms:	inter- α -trypsin inhibitor heavy chain 3; ITI-HC3; H3P; inter-alpha-trypsin inhibitor heavy chain 3; SHAP
Protein Construction:	A DNA sequence encoding the human ITIH3 (NP_002208.3) (Met1-Asp651) was expressed with a polyhistidine tag at the C-terminus. Predicted N terminal: Gly 21
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q06033-1
Molecular Weight:	72.4 kDa (predicted)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μ m filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

ITIH3 (Inter-Alpha-Trypsin Inhibitor Heavy Chain 3) is a Protein Coding gene. This gene encodes the heavy chain subunit of the pre-alpha-trypsin inhibitor complex. This complex may stabilize the extracellular matrix through its ability to bind hyaluronic acid. ITIH3 is involved in the stabilization of the extracellular matrix. A polymorphism (rs2535629) of ITIH3 showed the strongest association signal with susceptibility to psychiatric disorders in

Caucasian populations. Common single nucleotide polymorphisms (SNPs) in or near the inter-alpha-trypsin inhibitor heavy chain H3 (ITIH3) gene have been repeatedly associated with schizophrenia and related psychiatric disorders in genome-wide association studies. ITIH3 may be a useful biomarker for the early detection of gastric cancer. Diseases associated with ITIH3 include Schizophrenia and Major Depressive Disorder.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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