



Recombinant Human ITIH3 (C-6His)

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| Catalog # | EPT047 |
| Expression Host | Human Cells |
| DESCRIPTION | Recombinant Human Inter-alpha-trypsin Inhibitor Heavy Chain H3 is produced by our Mammalian expression system and the target gene encoding Leu35-Asp651 is expressed with a 6His tag at the C-terminus. |
| Accession | Q06033 |
| Synonyms | Inter-alpha-trypsin inhibitor heavy chain H3;ITI heavy chain H3;ITI-HC3;Inter-alpha-inhibitor heavy chain 3;Serum-derived hyaluronan-associated protein;SHAP |
| Mol Mass | 70.4 KDa |
| AP Mol Mass | 80-100 KDa, reducing conditions |
| Purity | Greater than 95% as determined by reducing SDS-PAGE. |
| Endotoxin | Less than 0.1 ng/μg (1 EU/μg) as determined by LAL test. |
| FORMULATION | Lyophilized from a 0.2 μm filtered solution of 20mM |





PB, 150mM NaCl, pH 7.4.

RECONSTITUTION

Always centrifuge tubes before opening. Do not mix by vortex or pipetting.

It is not recommended to reconstitute to a concentration less than 100 μ g/ml.

Dissolve the lyophilized protein in distilled water.

Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

SHIPPING

The product is shipped at ambient temperature.

Upon receipt, store it immediately at the temperature listed below.

STORAGE

Lyophilized protein should be stored at $< -20^{\circ}\text{C}$, though stable at room temperature for 3 weeks.

Reconstituted protein solution can be stored at $4-7^{\circ}\text{C}$ for 2-7 days.

Aliquots of reconstituted samples are stable at $< -20^{\circ}\text{C}$ for 3 months.

BACKGROUND

ITIH3, which is short for Inter-alpha-trypsin inhibitor heavy chain H3, is a 890 aa. protein. It is secreted expression, and belongs to the ITIH family. I-alpha-I plasma protease inhibitors are assembled from one or two heavy chains (H1, H2 or H3) and one light chain,





bikunin. Inter-alpha-inhibitor (I-alpha-I) is composed of H1, H2 and bikunin, inter-alpha-like inhibitor (I-alpha-LI) of H2 and bikunin, and pre-alpha-inhibitor (P-alpha-I) of H3 and bikunin. ITTH3 may act as a carrier of hyaluronan in serum or as a binding protein between hyaluronan and other matrix protein, including those on cell surfaces in tissues to regulate the localization, synthesis and degradation of hyaluronan which are essential to cells undergoing biological processes.

SDS-PAGE

