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Datasheet for ABIN1945423 ITIH3 Protein (AA 35-651) (His tag)

Overview

Quantity:	50 µg
Target:	ITIH3
Protein Characteristics:	AA 35-651
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ITIH3 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Inter-α-Trypsin Inhibitor Heavy Chain H3/ITIH3 (C-6His)
Sequence:	<p>LPEGVANGIE VYSTKINSKV TSRFAHNVVT MRAVNRADTA KEVSFDVELP KTAFITNFTL</p> <p>TIDGVTYPGN VKEKEVAKKQ YEKA VSQGKT AGLVKASGRK LEKFTVSVNV AAGSKVTFEL</p> <p>TYEELLKRHK GKYEMYLKVQ PKQLVKHFEI EVDIFEPQGI SMLDAEASFI TNDLLGSALT</p> <p>KSFSGKKGHV SFKPSLDQQR SCPTCTDSLL NGDFTITYDV NRESPGNVQI VNGYFVHFFA</p> <p>PQGLPVVPMK VAFVIDISGS MAGRKLEQTK EALLRILEDM QEEDYLNFIL FSGDVSTWKE</p> <p>HLVQATPENL QEARTFVKSM EDKGMTNIND GLLRGISMLN KAREEHRIPE RSTSIVIMLT</p> <p>DGDANVGESR PEKIQENVRN AIGGKFPLYN LGFGNNLNYN FLENMALENH GFARRIYEDS</p> <p>DADLQLQGFY EEVANPLLTG VEMEYPENAI LDLTQNTYQH FYDGSEIVVA GRLVDEDMNS</p> <p>FKADVKGHGA TNDLTFTEEV DMKEMEALQ ERDYIFGNYI ERLWAYLTIE QLLEKRKNAH</p> <p>GEEKENLTAR ALDLSLKYHF VTPLTSMVVT KPEDNEDERA IADKPGEDAE ATPVSPAMSY</p> <p>LTSYQPPQNP YYYVDGDVDH HHHHH</p>
Characteristics:	Recombinant Human Inter-alpha-trypsin inhibitor heavy chain H3/ITIH3 is produced with our

Product Details

	mammalian expression system in human cells. The target protein is expressed with sequence (AA 35-651) of Human ITIH3 fused with a polyhistidine tag at the C-termin
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	ITIH3
Alternative Name:	Inter-alpha-Trypsin Inhibitor Heavy Chain H3/ITIH3 (ITIH3 Products)
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.
Molecular Weight:	70.4 kDa
UniProt:	Q06033
Pathways:	Glycosaminoglycan Metabolic Process

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	It is not recommended to reconstitute to a concentration less than 100 µg/mL. Dissolve the lyophilized protein in ddH2O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.

Handling

Storage: 4 °C/-20 °C/-80 °C

Storage Comment: Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.
Reconstituted protein solution can be stored at 4-7°C for 2-7 days.
Aliquots of reconstituted samples are stable at < -20°C for 3 months.