

## 32-8406: Recombinant Human Inter- $\alpha$ -Trypsin Inhibitor Heavy Chain H3/ITIH3 (C-6His)

**Gene :** ITIH3  
**Gene ID :** 3699  
**Uniprot ID :** Q06033

### Description

Source: Human Cells.  
MW :70.4kD.

Recombinant Human ITI 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. 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.

### Product Info

**Amount :** 10  $\mu$ g / 50  $\mu$ g  
**Content :** Lyophilized from a 0.2  $\mu$ m filtered solution of 20mM PB,150mM NaCl, pH7.4.  
Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks.  
**Storage condition :** 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.  
**Amino Acid :** LPEGVANGIEVYSTKINSKVTSRFAHNVVTMRVNRADTAKEVSFDVELPKTAFITNFTLTIDGVTYP  
GNVKEKEVAKKQYEKAVSQGKTAGLVKASGRKLEKFTVSVNVAAGSKVTFELTYEELLKRHKGY  
EMYLKVQPKQLVKHFEIEVDIFEPQGISMILDAEASFITNDLLGSALTCSFSGKKGHVSFKPSLDQQR  
SCPTCTDSSLNGDFTITYDVNRESPGNVQIVNGYFVHFFAPQGLPVVPKNVAFVIDISGSMAGRKLE  
QTKEALLRILEDQMCEEDYLNIFLFSGDVSTWKEHLVQATPENLQEARTFVKSMEDKGMTNINDGLL  
RGISMLNKAREEHRIPERSTSIVIMLTGDANVGESRPEKIQENVRNAIGGKFPLYNLGFGNNLNYN  
FLENMALENHGFARRIYEDSDADLQLQGFYEEVANPLLTGVEMEYPENAILDLTQNTYQHFDYDSE  
IVVAGRLVDEDMNSFKADVKGHGATNDLTFTEEVDMKEMEALQERDYIFGNYIERLWAYLTIEQLL  
EKRKNAHGEEKENLTARALDSLKYHFVTPLTSMVVTKPEDNERAIADKPGEDAEATPVSPAMS  
YLTSYQPPQNPYYYVDGDVDHHHHHH

### Application Note

**Endotoxin :** Less than 0.1 ng/ $\mu$ g (1 IEU/ $\mu$ g) as determined by LAL test.