



Recombinant Protein Technical Manual

Recombinant Human ITIH3 Protein (His Tag)

RPES2666

Product Data:

Product SKU: RPES2666

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: Q06033

Protein Information:

Molecular Mass: 70.4 kDa

AP Molecular Mass: 90 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of 20mM PB,150mM NaCl, pH7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

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

Immunogen Information:

Sequence: Leu35-Asp651

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.