

## Recombinant Human ITIH4 Protein, Full Length, C-6×His tagged

Cat. No. ITIH4-43HFL Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human ITIH4 Protein (full length) with a C-terminal 6-His tag was expressed in Chinese Hamster Ovary cell line.
<b>Species</b>	Human
<b>Source</b>	CHO
<b>ProteinLength</b>	Full Length
<b>Description</b>	The protein encoded by this gene is secreted into the blood, where it is cleaved by plasma kallikrein into two smaller forms. Expression of this gene has been detected only in liver, and it seems to be upregulated during surgical trauma. This gene is part of a cluster of similar genes on chromosome 3. Two transcript variants encoding different isoforms have been found for this gene.
<b>Bio-activity</b>	Measured by its binding ability in a functional ELISA. When Recombinant Human ITIH4 is immobilized at 2 µg/mL (100 µL/well), the concentration of Recombinant Human TSG-6 that produces 50% of the optimal binding response is 5-25 µg/mL.
<b>Molecular Mass</b>	Predicted Molecular Mass: 101 kDa SDS-PAGE: 113-117 kDa, under reducing conditions
<b>Endotoxin</b>	< 0.10 EU/µg of the protein by the LAL method.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Purity</b>	> 95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie Blue Staining.
<b>N-terminal Sequence Analysis</b>	Glu29
<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
<b>Storage Buffer</b>	Lyophilized from a 0.2 µm filtered solution in Tris and NaCl.
<b>Shipping</b>	The product is shipped at ambient temperature.
<b>Reconstitution</b>	Reconstitute at 500 µg/mL in PBS.
<b>References</b>	<ol style="list-style-type: none"> <li>1. Nishimura, H. et al. (1995) FEBS Lett. 357:207.</li> <li>2. Salier, JP et al. (1996) Biochem. J. 315:1.</li> <li>3. Zhuo, L. et al. (2004) J. Biol. Chem. 279:38079.</li> </ol>

## GENE INFORMATION

<b>Gene Name</b>	ITIH4 inter-alpha-trypsin inhibitor heavy chain family, member 4 [ Homo sapiens (human) ]
<b>Official Symbol</b>	ITIH4
<b>Synonyms</b>	ITIH4; inter-alpha-trypsin inhibitor heavy chain family, member 4; inter alpha (globulin) inhibitor H4 (plasma Kallikrein sensitive glycoprotein) , ITIHL1; inter-alpha-trypsin inhibitor heavy chain H4; H4P; IHRP; plasma Kallikrein sensitive glycoprotein; ITI

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heavy chain H4; inter-alpha-inhibitor heavy chain 4; plasma kallikrein-sensitive glycoprotein 120; inter-alpha-trypsin inhibitor, heavy chain-like, 1; inter-alpha-trypsin inhibitor family heavy chain-related protein; inter-alpha (globulin) inhibitor H4 (plasma Kallikrein-sensitive glycoprotein); GP120; PK120; ITIHL1; PK-120; ITI-HC4; DKFZp686G21125;

**Gene ID** 3700

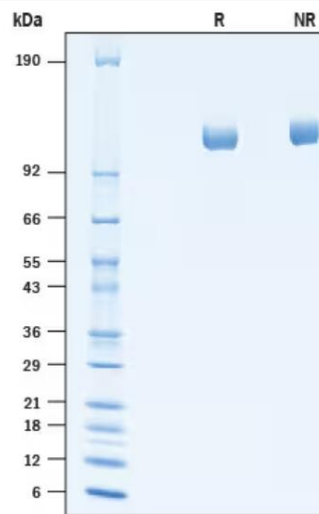
**mRNA Refseq** NM\_001166449

**Protein Refseq** NP\_001159921

**MIM** 600564

**UniProt ID** Q14624

#### SDS-PAGE



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