

## Recombinant Human ITK protein, His-tagged

**Cat. No.** ITK-3745H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                            |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human ITK protein(151-258 aa), fused with N-terminal His tag, was expressed in E.coli.                                                                                                                                                                                                         |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                     |
| <b>ProteinLength</b>    | 151-258 aa                                                                                                                                                                                                                                                                                                 |
| <b>Form</b>             | The purified protein was lyophilized from sterile phosphate-buffered saline (PBS: 58 mM Na <sub>2</sub> HPO <sub>4</sub> , 17 mM NaH <sub>2</sub> PO <sub>4</sub> , 68 mM NaCl, pH 7.4). Prior to lyophilization, 5% (w/v) trehalose and 5% (w/v) mannitol were incorporated as cryoprotective excipients. |
| <b>AASequence</b>       | NASKKPLPPTPEDNRRPLWEPEETVVIALYDYQTNDPQELALRRNEEYCLLDSSEIH<br>WWRVQDRNGHEGYVPSSYLVEKSPNNLETYEWYNKSISRDKAEKLLLDGTGK                                                                                                                                                                                          |
| <b>Purity</b>           | 85%, by SDS-PAGE with Coomassie Brilliant Blue staining.                                                                                                                                                                                                                                                   |
| <b>Storage</b>          | Store at 2-8°C for 1-2 weeks. Aliquot and store at -20°C to -80°C for up to 3 months, reconstitution with sterile water and addition of an equal volume of glycerol. Avoid repeat freeze-thaw cycles.                                                                                                      |
| <b>Reconstitution</b>   | Dissolve the product in 200 µl sterile water to achieve a working concentration of 0.25 g/                                                                                                                                                                                                                 |

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μl. If experimental compatibility allows, mix the aqueous solution with an equal volume of glycerol (1:1 ratio) after initial reconstitution.

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                        |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | ITK IL2-inducible T-cell kinase [ Homo sapiens ]                                                                                                                                                                                                                                                                                                       |
| <b>Official Symbol</b> | ITK                                                                                                                                                                                                                                                                                                                                                    |
| <b>Synonyms</b>        | ITK; IL2-inducible T-cell kinase; tyrosine-protein kinase ITK/TSK; EMT; LYK; PSCTK2; kinase EMT; T-cell-specific kinase; tyrosine-protein kinase LYK; IL-2-inducible T cell kinase; IL-2-inducible T-cell kinase; homolog of mouse T-cell itk/tsk; interleukin-2-inducible T cell kinase; interleukin-2-inducible T-cell kinase; MGC126257; MGC126258; |
| <b>Gene ID</b>         | 3702                                                                                                                                                                                                                                                                                                                                                   |
| <b>mRNA Refseq</b>     | NM_005546                                                                                                                                                                                                                                                                                                                                              |
| <b>Protein Refseq</b>  | NP_005537                                                                                                                                                                                                                                                                                                                                              |
| <b>MIM</b>             | 186973                                                                                                                                                                                                                                                                                                                                                 |
| <b>UniProt ID</b>      | Q08881                                                                                                                                                                                                                                                                                                                                                 |

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**SDS-PAGE**

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