

## ITK Kinase Recombinant Protein | ITK recombinant protein

Recombinant Mouse ITK Kinase Protein (aa 351-619, His &amp; GST tag)

CATALOG #  
**AAA173593**

HOST  
**Baculovirus-Insect Cells**

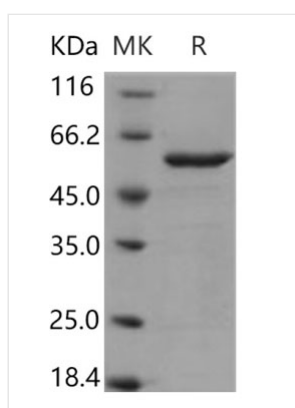
### PRODUCT SYNONYMS

ITK Kinase; Recombinant Mouse ITK Kinase Protein (aa 351-619; His &amp; GST tag); RP23-273O7.1; Emt; Tcsk; Tsk; ITK recombinant protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                 |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | Baculovirus-Insect Cells                                                                                                                                                                                                                                        |
| Purity/Purification     | > 80 % as determined by SDS-PAGE                                                                                                                                                                                                                                |
| Form/Format             | Lyophilized from sterile 50mM Tris, 100mM NaCl, pH 7.5, 10% glycerol, 0.5mM GSH, 5% Trehalose, 5% Mannitol, 0.01% Tween-80.                                                                                                                                     |
| Sequence Positions      | Arg 351-Leu 619                                                                                                                                                                                                                                                 |
| Species                 | Mouse                                                                                                                                                                                                                                                           |
| Tag                     | N-His-GST                                                                                                                                                                                                                                                       |
| Endotoxin               | < 1.0 EU per ug of the protein as determined by the LAL method.                                                                                                                                                                                                 |
| Reconstitution          | We recommend that the vial be centrifuged to opening to bring the contents to the bottom. Do not mix by vortex. It is recommended that sterile water(200ul) be added to the vial to prepare a stock solution of 0.25mg/mL. Concentration is measured by UV-Vis. |
| Preparation and Storage | Ships on blue ice. 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.                   |

### IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

|                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for ITK recombinant protein | IL-2-inducible T cell kinase is a member of the protein kinase superfamily, Tyr protein kinase family and TEC subfamily. It contains 1 Btk-type zinc finger, 1 PH domain, 1 protein kinase domain, 1 SH2 domain and 1 SH3 domain. As an intracellular kinase which expressed in T-cells, IL-2-inducible T cell kinase contains both SH2 and SH3 domains which are often found in intracellular kinases. It is hought to play a role in T-cell proliferation and differentiation. It regulates the development, function and differentiation of conventional T-cells and nonconventional NKT-cells. IL-2-inducible T cell kinase also plays an essential role in regulation of the adaptive immune response. effects in IL-2-inducible T cell kinase are the cause of lymphoproliferative syndrome EBV-associated autosomal type 1 (LPSA1). LPSA1 is a rare immunodeficiency characterized by extreme susceptibility to infection with Epstein-Barr virus (EBV). Inadequate immune response to EBV can have a fatal outcome. Clinical features include splenomegaly, lymphadenopathy, anemia, thrombocytopenia, pancytopenia, recurrent infections. There is an increased risk for lymphoma. |
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NCBI AND UNIPROT INFORMATION

|                                  |                                           |
|----------------------------------|-------------------------------------------|
| NCBI GI #                        | 530354648                                 |
| NCBI GeneID                      | 16428                                     |
| NCBI Accession #                 | NP_001268894.1                            |
| NCBI GenBank Nucleotide #        | NM_001281965.1                            |
| UniProt Accession #              | Q03526                                    |
| Molecular Weight                 | Mol_Mass: 58.4 kDa<br>AP_Mol_Mass: 58 kDa |
| NCBI Official Full Name          | tyrosine-protein kinase ITK/TSK isoform 1 |
| NCBI Official Synonym Full Names | IL2 inducible T cell kinase               |
| NCBI Official Symbol             | Itk                                       |
| NCBI Official Synonym Symbols    | Emt; Tsk; Tcsk                            |
| NCBI Protein Information         | tyrosine-protein kinase ITK/TSK           |
| UniProt Protein Name             | Tyrosine-protein kinase ITK/TSK           |
| UniProt Gene Name                | Itk                                       |
| UniProt Synonym Gene Names       | Emt; Tlk; Tsk                             |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/itk-recombinant-protein-baculovirus-insect-cells/173593>