

SIRP beta 1 Protein, Human, Recombinant (His & Avi)

General Information

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| Synonyms: | Sirpb;Sirpb1;SIRP-beta;SIRP- β -1 isoform 3;SIRP-beta-1 isoform 3;Sirpb1a;CD172b;9930027N05Rik;DKFZp686A05192;SIRP β /CD172b;SIRP- β ;FLJ26614 |
| Protein Construction: | Glu30-Ala369 |
| Species: | Human |
| Expression Host: | HEK293 Cells |
| Accession: | O00241-1 |
| Molecular Weight: | 40 kDa (predicted). Due to glycosylation, the protein migrates to 52-60 kDa based on Tris-Bis PAGE result. |

QC Testing

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| Biological Activity: | Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first. |
| Purity: | > 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC |
| Endotoxin: | < 1.0 EU/ μ g of the protein as determined by the LAL method. |
| Formulation: | Lyophilized from a solution filtered through a 0.22 μ m filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization. |

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

SIRP beta 1 is a type I transmembrane protein belonging to the SIRP family within the Ig superfamily. Members of this family are characterized by an extracellular region containing a V-set Ig domain containing a J-like sequence and two C1-set Ig domains. SIRP beta 1 is immunoglobulin-like cell surface receptor involved in the negative regulation of receptor tyrosine kinase-coupled signaling processes. Participates also in the recruitment of tyrosine

kinase SYK. Triggers activation of myeloid cells when associated with TYROBP.

Reference

Takizawa H, Manz M G. Macrophage tolerance: CD47-SIRP- α -mediated signals matter[J]. Nature Immunology, 2007, 8(12):1287-1289.

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