

DAP10 Protein, Human, Recombinant (mFc)

General Information

Synonyms:	PIK3AP;DAP10;hematopoietic cell signal transducer;KAP10
Protein Construction:	A DNA sequence encoding the human HCST (Q9UBK5-1) (Met-Pro48) was fused with Fc region of mouse IgG1 at the C-terminus. Predicted N terminal: Gln 19
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q9UBK5-1
Molecular Weight:	29.3 kDa (predicted); 34 kDa (reducing conditions)

QC Testing

Biological Activity:	Activity testing is in progress. 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 SDS-PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:
A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

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

HCST (Hematopoietic Cell Signal Transducer, also known as DAP1) is a Protein Coding gene. HCST belongs to the DAP10 family. It is a transmembrane signaling adaptor that contains a YxxM motif in its cytoplasmic domain. The encoded protein may form part of the immune recognition receptor complex with the C-type lectin-like receptor NKG2D. HCST may be part of the immune recognition receptor complex. This receptor plays a major role in triggering cytotoxicity against target cells expressing cell surface ligands such as MHC class I chain-related MICA

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and MICB, and UL16-binding proteins (ULBPs). It may activate phosphatidylinositol 3-kinase dependent signaling pathways through its intracytoplasmic YxxM motif.

Reference

Wu J. et al., 1999, Science. 285 (5428): 730-2.

Karimi M. et al., 2006, J Immunol. 175 (12): 7819-28.

André P. et al., 2004, Eur J Immunol. 34 (4): 961-71.

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