

NK1.1/KLRB1F Protein, Mouse, Recombinant (hFc)

General Information

Synonyms:	Nkrp1f;MGC130066;MGC130065;Nkrp1-f;killer cell lectin-like receptor subfamily B member 1F;A630024B12Rik;Nkr-p1f
Protein Construction:	A DNA sequence encoding the extracellular domain of mouse KLRB1F (Q8VD98) (Gln 67-Val 217) was fused with the Fc region of human IgG1 at the N-terminus. Predicted N terminal: Glu
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	Q8VD98
Molecular Weight:	46 kDa (predicted); 52 kDa (reducing condition, due to glycosylation)

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:	> 88 % 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.

Reference

- Kveberg L, et al. (2011) Phylogenetic and functional conservation of the NKR-P1F and NKR-P1G receptors in rat and mouse. *Immunogenetics*. 63(7): 429-36.
- Aust JG, et al. (2009) The expression and function of the NKRP1 receptor family in C57BL/6 mice. *J Immunol*. 183(1): 106-16.
- Tian W, et al. (2005) C-type lectin OCILRP2/Clr-g and its ligand NKRP1f costimulate T cell proliferation and IL-2 production. *Cell Immunol*. 234(1): 39-53.
- Plougastel B, et al. (2001) Analysis of a 1-Mb BAC contig overlapping the mouse Nkrp1 cluster of genes: cloning of three new Nkrp1 members, Nkrp1d, Nkrp1e, and Nkrp1f. *Immunogenetics*. 53(7): 592-8.

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Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481