

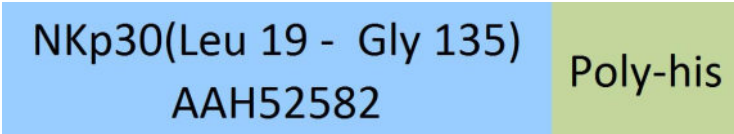
Synonym

NCR3,CD337,NKp30,1C7,LY117,MALS

Source

Human NKp30, His Tag (NC3-H5228) is expressed from human 293 cells (HEK293). It contains AA Leu 19 - Gly 135 (Accession # AAH52582).
Predicted N-terminus: Leu 19

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 13.7 kDa. The protein migrates as 21-32 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

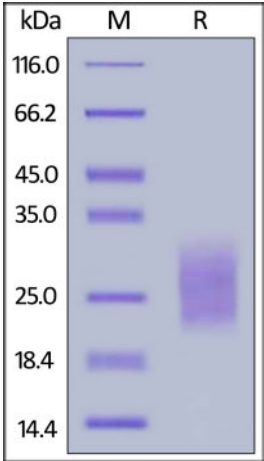
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

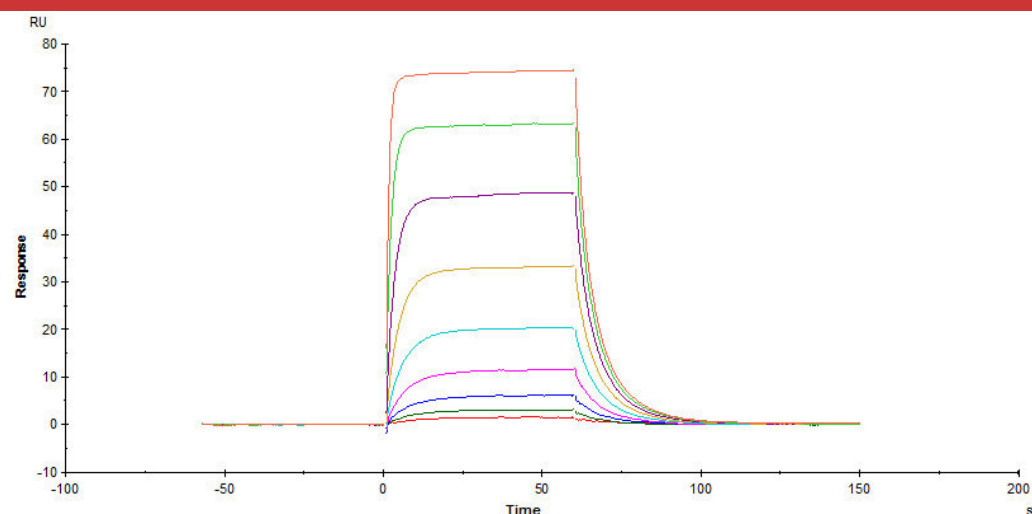
- 20°C to -70°C for 12 months in lyophilized state;
- 70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Human NKp30, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-SPR



Biotinylated Human B7-H6, His, Avitag (Cat. No. B76-H82E5) immobilized on SA Chip can bind Human NKp30, His Tag (Cat. No. NC3-H5228) with an affinity constant of 0.213 μ M as determined in a SPR assay (Biacore T200) (Routinely tested).

Background

Natural cytotoxicity triggering receptor 3 (NCR3) is also known as Activating natural killer receptor p30, Natural killer cell p30-related protein (NK-p30), CD antigen CD337, 1C7, LY117. NCR3 /CD337 /NKp30 belongs to the natural cytotoxicity receptor (NCR) family. NCR3 /NKp30 contains one Ig-like (immunoglobulin-like) domain. NCR3 /NKp30 is selectively expressed by all resting and activated NK cells and weakly expressed in spleen. NCR3 is homodimer in the unliganded form. NCR3 interacts with CD3Z. NCR3 interacts with and is activated by binding to NCR3LG1 or BAG6. Engagement of NCR3 by BAG6 also promotes dendritic cell (DC) maturation, both through killing those DCs that did not properly acquire a mature phenotype, and inducing NK cells to release TNFA and IFNG, which promotes DC maturation.

References

- (1) [Pende D., et al., 1999, J. Exp. Med. 190:1505-1516.](#)
- (2) [Vitale M., et al., 2005, Blood 106:566-571.](#)
- (3) [Simhadri V.R., et al., 2008, PLoS ONE 3:E3377-E3377.](#)

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.