

Synonym

CD24,CD24A

Source

Human CD24 Protein, His Tag(CD4-H52H5) is expressed from human 293 cells (HEK293). It contains AA Ser 27 - Gly 59 (Accession # [P25063-1](#)).
Predicted N-terminus: Ser 27

Molecular Characterization

Human CD24 Protein, His Tag is designed and expressed as nanoparticles of approximately 25 nm diameter by displaying CD24 ECD in native conformation. The nanoparticles each was coated with an average of 180 CD24 ECD.

The nanoparticle technology allows directional and high-density display of human CD24 on the surface of nanoparticles, thus greatly enhances the immune response in vivo to otherwise poorly immunogenic epitopes.

This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 34.3 kDa. The protein migrates as 43-55 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 0.5 EU per µg by the LAL method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS with glycine and sodium citrate, pH8.0 with trehalose as protectant.

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

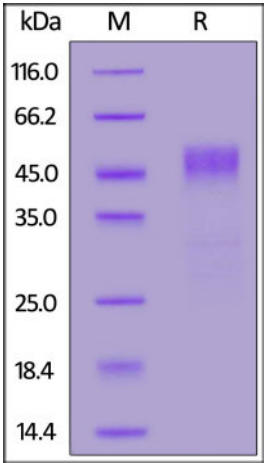
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

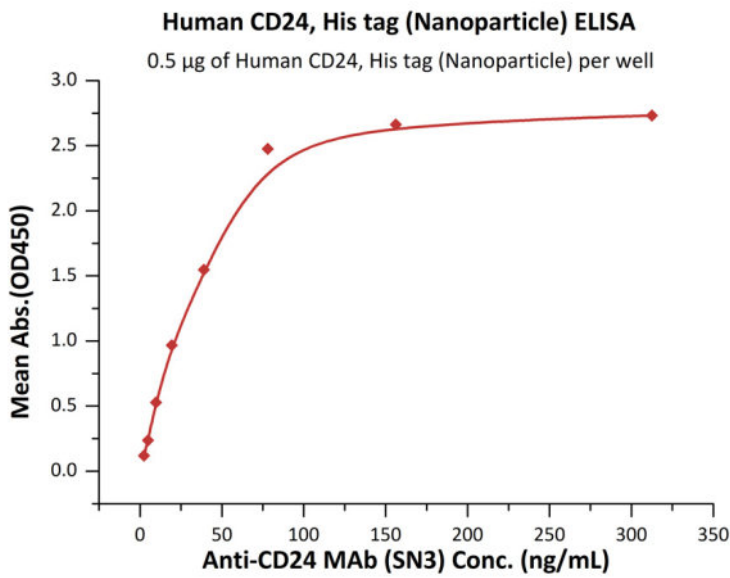
- 20°C to -70°C for 12 months in lyophilized state;
- 70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Human CD24 Protein, 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 90%.

Bioactivity-ELISA



Immobilized Human CD24 Protein, His Tag (Cat. No. CD4-H52H5) at 5 µg/mL (100 µL/well) can bind Anti-CD24 MAb (SN3) with a linear range of 5-78 ng/mL (QC tested).

Background

CD24 may have a pivotal role in cell differentiation of different cell types. Signaling could be triggered by the binding of a lectin-like ligand to the CD24 carbohydrates, and transduced by the release of second messengers derived from the GPI-anchor. Modulates B-cell activation responses. Promotes AG-dependent proliferation of B-cells, and prevents their terminal differentiation into antibody-forming cells. In association with SIGLEC10 may be involved in the selective suppression of the immune response to danger-associated molecular patterns (DAMPs) such as HMGB1, HSP70 and HSP90. Plays a role in the control of autoimmunity.

Clinical and Translational Updates

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