

## CD24 Protein, Mouse, Recombinant (CHO, hFc)

### General Information

Synonyms:	CD_antigen: CD24;CD24A;CD24 molecule;Signal transducer CD24
Protein Construction:	Ser27-Gly53
Species:	Mouse
Expression Host:	CHO Cells 3E7
Accession:	P24807
Molecular Weight:	~48-52 kDa (Reducing conditions)

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it.
Purity:	> 90% as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a 0.2 µm filtered solution in PBS.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/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:

Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

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

Signal transducer CD24 also known as cluster of differentiation 24 or heat stable antigen CD24 (HSA) is a protein that in mouse is encoded by the CD24 gene. CD24 is a cell adhesion molecule. CD24 is a sialoglycoprotein expressed at the surface of most B lymphocytes and differentiating neuroblasts. It is also expressed on neutrophils and neutrophil precursors from the myelocyte stage onwards. The encoded protein is anchored via a glycosyl phosphatidylinositol (GPI) link to the cell surface. The protein also contributes to a wide range of downstream signaling networks and is crucial for neural development. Cross-linking of CD24 on the surface of neutrophils induces apoptosis, and this appears to be defective in sepsis.

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