

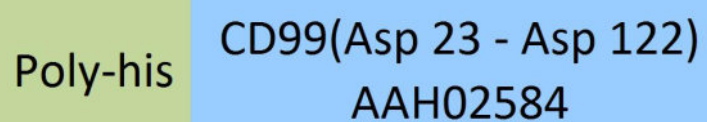
**Synonym**

CD99,HBA71,MIC2,MIC2X,MIC2Y,MSK5X,12E7

**Source**

Human CD99, His Tag (CD9-H5221) is expressed from human 293 cells (HEK293). It contains AA Asp 23 - Asp 122 (Accession # AAH02584).

Predicted N-terminus: His

**Molecular Characterization**


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

The protein has a calculated MW of 10.9 kDa. The protein migrates as 25 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.*

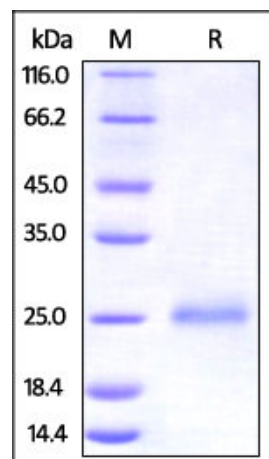
**Storage**

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 CD99, 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%.

**Background**

CD99 antigen is also known as MIC2, single-chain type-1 glycoprotein, HBA71, MIC2X, MIC2Y, MSK5X, 12E7, which belongs to the CD99 family. CD99 / MIC2 is expressed on all leukocytes but highest on thymocytes. Involved in T-cell adhesion processes and in spontaneous rosette formation with erythrocytes. CD99 / MIC2 plays a role in a late step of leukocyte extravasation helping leukocytes to overcome the endothelial basement membrane. CD99 acts at the same site as, but independently of PECAM1. There is also experimental evidence that it binds to cyclophilin A.

**References**

- (1) [Gelin C., et al., 1989, EMBO J. 8:3253-3259.](#)
- (2) [Aussel C., et al., 1993, Biochemistry 32 \(38\): 10096-101.](#)
- (3) [Dworzak MN., et al., 1994, Blood 83 \(2\): 415-25.](#)
- (4) [Bernard G., et al., 1997, Journal of immunology \(Baltimore, Md. : 1950\) 158 \(6\): 2543-50.](#)

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.