

CD228 Protein, Human, Recombinant (His)

General Information

Synonyms:	MFI2;MAP97;MELTF;Melanotransferrin;CD228
Protein Construction:	Gly20-Cys709
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P08582-1
Molecular Weight:	76.60 kDa (predicted). Due to glycosylation, the protein migrates to 78-88 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Human CD228, His Tag at 1 µg/mL (100 µL/well) on the plate. Dose response curve for Anti-CD228 Antibody, hFc Tag with the EC50 of 4.1 ng/mL determined by ELISA (QC Test).
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
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, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled 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:

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.

Protein Background

Melanotransferrin is typically overexpressed in melanoma cells compared to other cell types - including cancer cells - and is efficiently sorted and secreted with nanovesicles, or so-called exosomes, due to its membrane-anchoring by a glycosylphosphatidylinositol. Melanotransferrin is exposed on the surface of exosomes and is accessible for antibody recognition.

Reference

Bonhoure A, et al. Melanotransferrin is efficiently sorted on the surface of exosomes secreted by melanoma cells. Melanoma Res. 2021 Aug 1;31(4):338-35doi: 10.1097/CMR.000000000000074PMID: 33965973.

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