

TEM1/CD248 Protein, Human, Recombinant (His)

General Information

Synonyms:	CD248;Endosialin;CD248 molecule;CD164L1;TEM1;MGC119479;CD164 sialomucin-like 1
Protein Construction:	Gln18-Leu687
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q9HCU0-1
Molecular Weight:	72.7 kDa (predicted). Due to glycosylation, the protein migrates to 115-140 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Human TEM1, His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Anti-TEM1 Antibody, hFc Tag with the EC50 of 4.8ng/ml determined by ELISA.
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

Colorectal cancer (CRC) is one of the most common cancers worldwide usually diagnosed in the advanced stage. The serum concentration of tumor endothelial marker 1 (TEM1) was measured and correlated with clinicopathological features to evaluate whether TEM1 might serve as a biomarker for early CRC diagnosis, progression, and prognosis. TEM1 can act as a potential diagnostic, progression, and prognostic serum biomarker for patients with CRC; TEM1 might be a good supplement for commonly used markers CEA and Ca 19-9.

Reference

Pietrzyk Ł, Wdowiak P. Endosialin (TEM1) as a Diagnostic, Progression, and Prognostic Serum Marker for Patients With Colorectal Cancer-A Preliminary Study. *Cancer Control*. 2020 Jan-Dec;27(1):107327482090335doi: 10.1177 /107327482090335PMID: 32107922; PMCID: PMC7053787.

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