

HUMAN MUC18 PROTEIN, HIS TAG

Cat.#: 11524

Product Name: Human MUC18 Protein

Size: 10 µg, 50 µg and 100 µg

Synonyms: Cell surface glycoprotein MUC18; cell surface glycoprotein PIH12; melanoma cell adhesion molecule; melanoma-associated antigen A32; melanoma-associated antigen MUC18; -endo 1 endothelial-associated antigen; D146

Target: MUC18

UNIPROT ID: P43121

Description: Recombinant human MUC18 protein with C-terminal 6xHis tag

Background: Plays a role in cell adhesion, and in cohesion of the endothelial monolayer at intercellular junctions in vascular tissue. Its expression may allow melanoma cells to interact with cellular elements of the vascular system, thereby enhancing hematogenous tumor spread. Could be an adhesion molecule active in neural crest cells during embryonic development. Acts as surface receptor that triggers tyrosine phosphorylation of FYN and PTK2/FAK1, and a transient increase in the intracellular calcium concentration. [UniProtKB/Swiss-Prot Function]

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 60.6 kDa after removal of the signal peptide. The apparent molecular mass of MUC18-His is approximately 70-100 kDa due to glycosylation.

Molecular Characterization: MUC18(Val24-Gly559) 6xHis tag

Purity: The purity of the protein is greater than 85% as determined by SDS-PAGE and Coomassie blue staining.

Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

Storage & Shipping: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

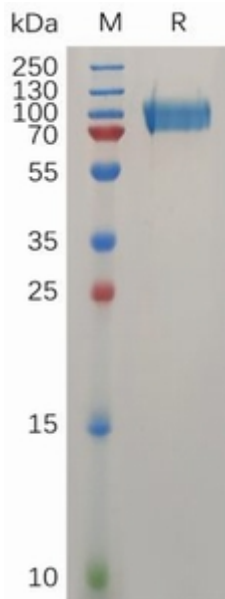


Figure 1. Human MUC18 Protein, His Tag on SDS-PAGE under reducing condition.