

Human E-Cadherin/Cadherin-1 Protein

Cat. No. CDH-HM101

Description

Source	Recombinant Human E-Cadherin/Cadherin-1 Protein is expressed from HEK293 with His tag at the C-terminus. It contains Asp155-Ala709.
Accession	P12830-1
Molecular Weight	The protein has a predicted MW of 61.62 kDa. Due to glycosylation, the protein migrates to 70-80 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 90% as determined by HPLC

Formulation and Storage

Formulation	Lyophilized from 0.22 μm filtered solution in 20mM Tris, 150mM NaCL (pH 8.0). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

E-cadherin is the core component of epithelial adherens junctions, essential for tissue development, differentiation, and maintenance. It is also fundamental for tissue barrier formation, a critical function of epithelial tissues.

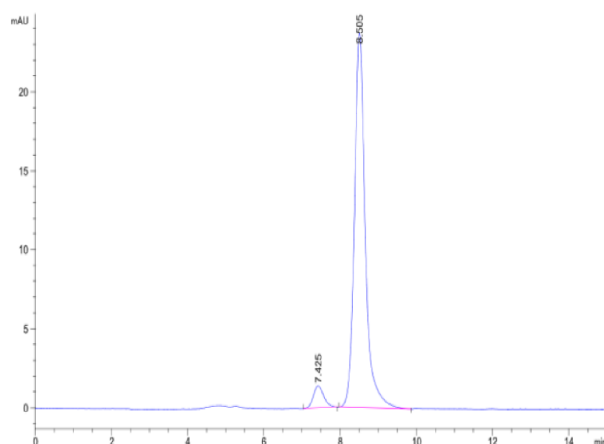
Assay Data

Tris-Bis PAGE



Human E-Cadherin on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Human E-Cadherin is greater than 90% as determined by SEC-HPLC.