

Human ESM1 (His Tag) recombinant protein



Catalog Number: 502348

General Information

Protein Construction

A DNA sequence encoding the human ESM1 (NP_008967.1) (Met1-Arg184) was expressed with a C-terminal polyhistidine tag.

Organism

Human

Expression Host

Baculovirus-Insect Cells

QC Testing

Activity

Measured by its ability of the immobilized protein to support the adhesion of Jurkat human acute T cell leukemia cells.

When 8×10^4 cells/well are added to ESM1-His coated plates ($10\mu\text{g/mL}$, $100\mu\text{L/well}$), approximately 48% will adhere after 30 minutes at 37°C .

Purity

> 95 % as determined by SDS-PAGE

Endotoxin

< 1.0 EU per μg of the protein as determined by the LAL method

Stability

Samples are stable for up to twelve months from date of receipt at -70°C

Predicted N terminal

Trp 20

Molecular Mass

The secreted recombinant human ESM1 consists of 176 amino acids and predicts a molecular mass of 19.6 KDa. The apparent molecular mass of the protein is approximately 23-27 KDa in SDS-PAGE under reducing conditions.

Formulation

Lyophilized from sterile 20mM Tris, 500mM NaCl, 10% glycerol, pH 8.0.

1. 5 % trehalose and mannitol are added as protectants before lyophilization.

2. Please contact us for any concerns or special requirements.

Usage Guide

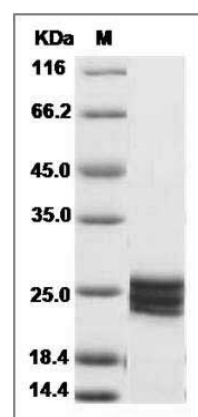
Storage

Store it under sterile conditions at -20°C to -80°C . It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

SDS-PAGE



Human ESM1 / Endocan Protein (His Tag) SDS-PAGE