

Rat ADAM17 Protein (His Tag)

Catalog Number: 80350-R08H



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

ADAM17

Protein Construction:

A DNA sequence encoding the rat ADAM17 (Q9Z1K9) (Met1-Asp563) was expressed with a polyhistidine tag at the C-terminus.

Source: Rat

Expression Host: HEK293 Cells

QC Testing

Purity: (73.2+23.7) % as determined by SDS-PAGE

Bio Activity:

Measured by its ability to cleave a fluorogenic peptide substrate Mca-PLAQAV-Dpa-RSSSR-NH₂ (Catalog # ES003). The specific activity is >250 pmol/min/μg.

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: Pro 18

Molecular Mass:

The recombinant rat ADAM17 comprises 557 amino acids and predicts a molecular mass of 63 kDa. The apparent molecular mass of the recombinant protein is approximately 57 and 20 kDa in SDS-PAGE under reducing conditions due to glycosylation.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

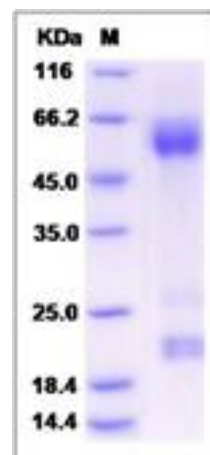
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

ADAM17 is a member of the ADAM protein family of disintegrins and metalloproteases. ADAM17 is ubiquitously expressed in the human colon, with increased activity in the colonic mucosa of patients with ulcerative colitis, a main form of inflammatory bowel disease. The expression of ADAM17 may be inhibited by ethanol. It is involved in the processing of tumor necrosis factor alpha (TNF-α) at the surface of the cell, and from within the intracellular membranes of the trans-Golgi network. ADAM17 also plays a role in the release of a diverse variety of membrane-anchored cytokines, cell adhesion molecules, receptors, ligands, and enzymes. ADAM17 may play a prominent role in the Notch signaling pathway, during the proteolytic release of the Notch intracellular domain (from the Notch1 receptor) that occurs following ligand binding.

References

1. Poghosyan. et al., 2002, J Biol Chem. 277 (7): 4999-5007. 2. Li Y. et al., 2006, Blood. 108 (7): 2275-9. 3. Peiretti. et al., 2003, J Cell Sci. 116 (10): 1949-57.

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