Mouse ITGAV & ITGB6 Heterodimer Protein
(Flag & His Tag)

Catalog Number: CT051-M2508H

General Information

Gene Name Synonym:
ITGAV & ITGB6

Protein Construction:
A DNA sequence encoding the extracellular domain (Met 1-Val988) of mouse ITGAV (NP_032428.2) was fused with a flag tag at the C-terminus, constructed the plasmid 1; A DNA sequence encoding the extracellular domain (Met1-Pro708) of mouse ITGB6 (NP_067334.1) was fused with a polyhistidine tag at the C-terminus, constructed the plasmid 2. The two plasmids were co-expressed and the mouse ITGAV&ITGB6 heterodimer was purified.

Source: Mouse

Expression Host: HEK293 Cells

QC Testing

Purity: > (32.4±62.5) % 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 ºC

Predicted N terminal: Phe 31 & Gly 22

Molecular Mass:
The recombinant heterodimer of mouse ITGAV&ITGB6 comprises 1728 (1000+728) amino acids and has a calculated molecular mass of 190.4 (110.7+79.7) KDa.

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 ºC to -80 ºC 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

Integrin alpha-5, also known as ITGAV, is a single-pass type I membrane protein which belongs to theintegrin alpha chain family. ITGAV contains 7FG-GAP repeats. Alpha chain 5 undergoes post-translational cleavage in the extracellular domain to yield disulfide-linked light and heavy chains that join with beta 1 to form a fibronectin receptor. ITGAV&ITGB6 is a receptor for fibronectin and cytactin. It recognizes the sequence R-G-D in its ligands. Internalisation of ITGAV&ITGB6 via clathrin-mediated endocytosis promotes carcinoma cell invasion.

References