

Active Recombinant Human ITGA1 Protein, C-6xHis-tagged

Cat. No. ITGA1-27H **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant Human Integrin alpha 1 (Met1-Pro1141, Acidic Tail) with a 6xHis tag at C-terminus and Human Integrin beta 1 (Gln21-Asp728, Basic Tail) was expressed in Chinese Hamster Ovary cell line.

Species Human

Source CHO

ProteinLength Integrin alpha 1: Met1-Pro1141
Integrin beta 1: Gln21-Asp728

Description This gene encodes the alpha 1 subunit of integrin receptors. This protein heterodimerizes with the beta 1 subunit to form a cell-surface receptor for collagen and laminin. The heterodimeric receptor is involved in cell-cell adhesion and may play a role in inflammation and fibrosis. The alpha 1 subunit contains an inserted (I) von Willebrand factor type I domain which is thought to be involved in collagen binding.

Bio-activity Measured by its binding ability in a functional ELISA. When Collagen I is immobilized at 5 µg/mL, Recombinant Human Integrin alpha 1 beta 1 can bind with an apparent KD <5 nM.
Optimal dilutions should be determined by each laboratory for each application.

Molecular Mass Predicted Molecular Mass: 132.3 kDa (Integrin alpha 1) & 86.4 kDa (Integrin beta 1)
SDS-PAGE: 180-200 & 110-130 kDa, reducing conditions

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N-terminal Sequence Analysis	Phe29 (Integrin alpha 1) & No results obtained: Gln21 predicted (Integrin beta 1), sequencing might be blocked
Endotoxin	<1.0 EU/μg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution in PBS.
Reconstitution	Reconstitute at 100 μg/mL in PBS.
Shipping	The product is shipped at ambient temperature.

GENE INFORMATION

Gene Name	ITGA1 integrin subunit alpha 1 [Homo sapiens (human)]
Official Symbol	ITGA1
Synonyms	ITGA1; integrin subunit alpha 1; VLA1; CD49a; integrin alpha-1; CD49 antigen-like family member A; VLA-1; laminin and collagen receptor; very late activation protein 1; very late antigen-1
Gene ID	3672
mRNA Refseq	NM_181501

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Protein Refseq [NP_852478](#)

MIM [192968](#)

UniProt ID [P56199](#)

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