Active Recombinant Human ITGA4/ITGB7 protein

Cat. No. ITGA4/ITGB7-356H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ITGA4(Tyr34-Gln970)/ITGB7(Glu20-His723) was expressed in CHO.
Species	Human
Source	CHO
ProteinLength	34-970;20-723 a.a.
Predicted N Terminal	Tyr34 (Integrin alpha 4), Glu20 (Integrin beta 7)
Form	Lyophilized from a 0.2 μm filtered solution in Tris, NaCl and MgCl2.
Bio-activity	Measured by the ability of the immobilized protein to support the adhesion of CHO Chinese hamster ovary cells transfected with VCAM-1. When 5 x 10^4 cells per well are added to Recombinant Human Integrin alpha 4/ beta 7/LPAM-1 coated plates (10 ug/mL, 100uL/well), approximately 50-80% will adhere after 60 minutes at 37 centigrade.
Molecular Mass	Predicted Molecular Mass: 112.8 (Integrin alpha 4) & 84.7 (Integrin beta 7) kDa;SDS-PAGE: 150-170 kDa and 125-135 kDa
Endotoxin	<1.0 EU per 1 μg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.

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Stability	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.
Reconstitution	Reconstitute at 200 ug/mL in sterile PBS.

GENE INFORMATION

Gene Name	ITGA4 integrin, alpha 4 (antigen CD49D, alpha 4 subunit of VLA-4 receptor) [Homo sapiens]
Official Symbol	ITGA4
Synonyms	ITGA4; integrin, alpha 4 (antigen CD49D, alpha 4 subunit of VLA-4 receptor); CD49D; integrin alpha-4; CD49d; 269C wild type; integrin alpha 4; integrin alpha-IV; VLA-4 subunit alpha; integrin alpha-4 subunit; CD49 antigen-like family member D; antigen CD49D, alpha-4 subunit of VLA-4 receptor; very late activation protein 4 receptor, alpha 4 subunit; IA4; MGC90518;
Gene ID	3676
mRNA Refseq	NM_000885
Protein Refseq	NP_000876
MIM	192975
UniProt ID	P13612
Chromosome	2q31-q32

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Location	
Pathway	Adaptive Immune System, organism-specific biosystem; Arrhythmogenic right ventricular cardiomyopathy (ARVC), organism-specific biosystem; Arrhythmogenic right ventricular cardiomyopathy (ARVC), conserved biosystem; Cell adhesion molecules (CAMs), organism-specific biosystem; Cell adhesion molecules (CAMs), conserved biosystem; Cell surface interactions at the vascular wall, organism-specific biosystem; Dilated cardiomyopathy, organism-specific biosystem;
Function	fibronectin binding; protein binding; receptor activity;

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