

Integrin alpha V beta 8 Protein, Human (HEK293, His)

Cat. No.:	HY-P72535
Synonyms:	Integrin alpha V beta 8; ITGAV&ITGB8; Integrin alpha V beta 8 Heterodimer; Integrin Alpha V & Beta 8
Species:	Human
Source:	HEK293
Accession:	P06756 (F31-V992)&P26012 (E43-R684)
Gene ID:	3685&3696
Molecular Weight:	125-160&80-100 kDa

PROPERTIES

AA Sequence

F N L D V D S P A E	Y S G P E G S Y F G	F A V D F F V P S A	S S R M F L L V G A
P K A N T T Q P G I	V E G G Q V L K C D	W S S T R R C Q P I	E F D A T G N R D Y
A K D D P L E F K S	H Q W F G A S V R S	K Q D K I L A C A P	L Y H W R T E M K Q
E R E P V G T C F L	Q D G T K T V E Y A	P C R S Q D I D A D	G Q G F C Q G G F S
I D F T K A D R V L	L G G P G S F Y W Q	G Q L I S D Q V A E	I V S K Y D P N V Y
S I K Y N N Q L A T	R T A Q A I F D D S	Y L G Y S V A V G D	F N G D G I D D F V
S G V P R A A R T L	G M V Y I Y D G K N	M S S L Y N F T G E	Q M A A Y F G F S V
A A T D I N G D D Y	A D V F I G A P L F	M D R G S D G K L Q	E V G Q V S V S L Q
R A S G D F Q T T K	L N G F E V F A R F	G S A I A P L G D L	D Q D G F N D I A I
A A P Y G G E D K K	G I V Y I F N G R S	T G L N A V P S Q I	L E G Q W A A R S M
P P S F G Y S M K G	A T D I D K N G Y P	D L I V G A F G V D	R A I L Y R A R P V
I T V N A G L E V Y	P S I L N Q D N K T	C S L P G T A L K V	S C F N V R F C L K
A D G K G V L P R K	L N F Q V E L L L D	K L K Q K G A I R R	A L F L Y S R S P S
H S K N M T I S R G	G L M Q C E E L I A	Y L R D E S E F R D	K L T P I T I F M E
Y R L D Y R T A A D	T T G L Q P I L N Q	F T P A N I S R Q A	H I L L D C G E D N
V C K P K L E V S V	D S D Q K K I Y I G	D D N P L T L I V K	A Q N Q G E G A Y E
A E L I V S I P L Q	A D F I G V V R N N	E A L A R L S C A F	K T E N Q T R Q V V
C D L G N P M K A G	T Q L L A G L R F S	V H Q Q S E M D T S	V K F D L Q I Q S S
N L F D K V S P V V	S H K V D L A V L A	A V E I R G V S S P	D H V F L P I P N W
E H K E N P E T E E	D V G P V V Q H I Y	E L R N N G P S S F	S K A M L H L Q W P
Y K Y N N N T L L Y	I L H Y D I D G P M	N C T S D M E I N P	L R I K I S S L Q T
T E K N D T V A G Q	G E R D H L I T K R	D L A L S E G D I H	T L G C G V A Q C L
K I V C Q V G R L D	R G K S A I L Y V K	S L L W T E T F M N	K E N Q N H S Y S L
K S S A S F N V I E	F P Y K N L P I E D	I T N S T L V T T N	V T W G I Q P A P M
P V	&	E D N R C A S S N A	A S C A R C L A L G
P E C G W C V Q E D	F I S G G S R S E R	C D I V S N L I S K	G C S V D S I E Y P
S V H V I I P T E N	E I N T Q V T P G E	V S I Q L R P G A E	A N F M L K V H P L
K K Y P V D L Y Y L	V D V S A S M H N N	I E K L N S V G N D	L S R K M A F F S R
D F R L G F G S Y V	D K T V S P Y I S I	H P E R I H N Q C S	D Y N L D C M P P H
G Y I H V L S L T E	N I T E F E K A V H	R Q K I S G N I D T	P E G G F D A M L Q
A A V C E S H I G W	R K E A K R L L L V	M T D Q T S H L A L	D S K L A G I V V P

NDGNCHLKNN	VYVKSTTMEH	PSLGQLSEKL	IDNNINVI FA
VQGKQFHMYK	DLLPLLPGTI	AGEIESKAAN	LNNLVVEAYQ
KLISEVKVQV	ENQVQGIYFN	ITAI CPDGSR	KPGMEGCRNV
TSNDEVLFNV	TVTMMKKCDVT	GGKNYAIIKP	IGFNETAKIH
IHRNCSCQCE	DNRGPKGKCV	DETF LDSKCF	QCDENKCHFD
EDQFSSESCK	SHKDQPVCSG	RGVCVCGKCS	CHKIKLGKVV
GKYCEKDDFS	CPYHHGNLCA	GHGECEAGRC	QCFSGWEGDR
CQCPSAAAQH	CVNSKGQVCS	GRGTCVCGRC	ECTDPRSIGR
FCEHCPTCYT	ACKENWN CMQ	CLHPHNL SQA	ILDQCKTSCA
LMEQQHYVDQ	TSECFSSPSY	LR	

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 50 mM Tris-HCl, 100 mM NaCl, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

The Integrin alpha V beta 5 protein, specifically the alpha-V (ITGAV) integrin subunit, serves as a versatile receptor for a range of ligands, including vitronectin, cytotactin, fibronectin, fibrinogen, laminin, matrix metalloproteinase-2, osteopontin, osteomodulin, prothrombin, thrombospondin, and vWF. Recognizing the sequence R-G-D in various ligands, ITGAV:ITGB3 binds to fractalkine, acting as a coreceptor in CX3CR1-dependent fractalkine signaling. Additionally, it forms essential binding interactions with NRG1, FGF1, FGF2, IGF1, IGF2, IL1B, PLA2G2A, fibrillin-1 (FBN1), and CD40LG, contributing to diverse signaling pathways. Notably, the ITGAV:ITGB3 or ITGAV:ITGB6 complex acts as a receptor for transforming growth factor beta-1 (TGF-beta-1), mediating its release from regulatory Latency-associated peptide (LAP) and playing a crucial role in TGF-beta-1 activation. Furthermore, ITGAV:ITGB5 functions as a receptor for Adenovirus type C during microbial infection. The integrative and multifunctional nature of Integrin alpha V beta 5 underscores its pivotal role in mediating diverse cellular responses and signaling cascades.

Caution: Product has not been fully validated for medical applications. For research use only.

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