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Datasheet for ABIN3093198 Integrin beta 3 Protein (ITGB3) (AA 27-718) (His tag)



Overview

Image

Quantity:	1 mg
Target:	Integrin beta 3 (ITGB3)
Protein Characteristics:	AA 27-718
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Integrin beta 3 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	GPNICTTRGV SSCQQCLAVS PMCAWCSDEA LPLGSPRCDL KENLLKDNCA PESIEFPVSE
	ARVLEDRPLS DKGSGDSSQV TQVSPQRIAL RLRPDDSKNF SIQVRQVEDY PVDIYYLMDL
	SYSMKDDLWS IQNLGTKLAT QMRKLTSNLR IGFGAFVDKP VSPYMYISPP EALENPCYDM
	KTTCLPMFGY KHVLTLTDQV TRFNEEVKKQ SVSRNRDAPE GGFDAIMQAT VCDEKIGWRN
	DASHLLVFTT DAKTHIALDG RLAGIVQPND GQCHVGSDNH YSASTTMDYP SLGLMTEKLS
	QKNINLIFAV TENVVNLYQN YSELIPGTTV GVLSMDSSNV LQLIVDAYGK IRSKVELEVR
	DLPEELSLSF NATCLNNEVI PGLKSCMGLK IGDTVSFSIE AKVRGCPQEK EKSFTIKPVG
	FKDSLIVQVT FDCDCACQAQ AEPNSHRCNN GNGTFECGVC RCGPGWLGSQ CECSEEDYRP
	SQQDECSPRE GQPVCSQRGE CLCGQCVCHS SDFGKITGKY CECDDFSCVR YKGEMCSGHG
	QCSCGDCLCD SDWTGYYCNC TTRTDTCMSS NGLLCSGRGK CECGSCVCIQ PGSYGDTCEK
	CPTCPDACTF KKECVECKKF DRGALHDENT CNRYCRDEIE SVKELKDTGK DAVNCTYKNE
	DDCVVRFQYY EDSSGKSILY VVEEPECPKG PD

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	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Human ITGB3 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade. State-of-the-art algorithm used for plasmid design (Gene synthesis).
	This protein is a made to order protein and will be made for the first time for your order. Our
	experts in the lab will ensure that you receive a correctly folded protein.
	The big advantage of ordering our made-to-order proteins in comparison to ordering custom
	made proteins from other companies is that there is no financial obligation in case the protein
	cannot be expressed or purified.
	In the unlikely event that the protein cannot be expressed or purified we do not charge anything
	(other companies might charge you for any performed steps in the expression process for
	custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression
	experiments or purification optimization).
	When you order this made-to-order protein you will only pay upon receival of the correctly
	folded protein. With no financial risk on your end you can rest assured that our experienced
	protein experts will do everything to make sure that you receive the protein you ordered.
	The concentration of our recombinant proteins is measured using the absorbance at 280nm.
	The protein's absorbance will be measured in several dilutions and is measured against its
	specific reference buffer.
	The concentration of the protein is calculated using its specific absorption coefficient. We use
	the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells:
	 In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
	 Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

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Target:	Integrin beta 3 (ITGB3)
Alternative Name:	ITGB3 (ITGB3 Products)
Background:	Integrin alpha-V/beta-3 (ITGAV:ITGB3) is a receptor for cytotactin, fibronectin, laminin, matrix
	metalloproteinase-2, osteopontin, osteomodulin, prothrombin, thrombospondin, vitronectin and
	von Willebrand factor. Integrin alpha-IIb/beta-3 (ITGA2B:ITGB3) is a receptor for fibronectin,
	fibrinogen, plasminogen, prothrombin, thrombospondin and vitronectin. Integrins alpha-
	IIb/beta-3 and alpha-V/beta-3 recognize the sequence R-G-D in a wide array of ligands. Integrir
	alpha-IIb/beta-3 recognizes the sequence H-H-L-G-G-G-A-K-Q-A-G-D-V in fibrinogen gamma
	chain. Following activation integrin alpha-IIb/beta-3 brings about platelet/platelet interaction
	through binding of soluble fibrinogen. This step leads to rapid platelet aggregation which
	physically plugs ruptured endothelial surface. Fibrinogen binding enhances SELP expression in
	activated platelets (By similarity). ITGAV:ITGB3 binds to fractalkine (CX3CL1) and acts as its
	coreceptor in CX3CR1-dependent fractalkine signaling (PubMed:23125415,
	PubMed:24789099). ITGAV:ITGB3 binds to NRG1 (via EGF domain) and this binding is essentia
	for NRG1-ERBB signaling (PubMed:20682778). ITGAV:ITGB3 binds to FGF1 and this binding is
	essential for FGF1 signaling (PubMed:18441324). ITGAV:ITGB3 binds to IGF1 and this binding
	is essential for IGF1 signaling (PubMed:19578119). {ECO:0000250 UniProtKB:054890,
	ECO:0000269 PubMed:18441324, ECO:0000269 PubMed:19578119,
	ECO:0000269 PubMed:20682778, ECO:0000269 PubMed:23125415,
	ECO:0000269 PubMed:24789099, ECO:0000269 PubMed:9195946,
	ECO:0000303 PubMed:16322781, ECO:0000303 PubMed:17635696}., (Microbial infection)
	Integrin ITGAV:ITGB3 acts as a receptor for herpes virus 8/HHV-8 (PubMed:18045938). Integri
	ITGAV:ITGB3 acts as a receptor for coxsackievirus A9 (PubMed:7519807). Acts as a receptor
	for Hantaan virus (PubMed:9618541). Integrin ITGAV:ITGB3 acts as a receptor for
	cytomegalovirus/HHV-5 (PubMed:15834425). Integrin ITGA5:ITGB3 acts as a receptor for
	human metapneumovirus (PubMed:24478423). Integrin ITGAV:ITGB3 acts aP05556s a
	receptor for human parechovirus 1 (PubMed:11160695). Integrin ITGAV:ITGB3 acts as a
	receptor for west nile virus (PubMed:23658209). In case of HIV-1 infection, the interaction with
	extracellular viral Tat protein seems to enhance angiogenesis in Kaposi's sarcoma lesions
	(PubMed:10397733). {ECO:0000269 PubMed:10397733, ECO:0000269 PubMed:11160695,
	ECO:0000269 PubMed:15834425, ECO:0000269 PubMed:18045938,
	EC0:0000269 PubMed:23658209, EC0:0000269 PubMed:24478423,
	ECO:0000269 PubMed:7519807, ECO:0000269 PubMed:9618541}.

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Target Details	
UniProt:	P05106
Pathways:	Regulation of G-Protein Coupled Receptor Protein Signaling, Signaling Events mediated by
	VEGFR1 and VEGFR2, Smooth Muscle Cell Migration, Integrin Complex

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee though.
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only
Handling	

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)



Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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