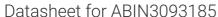
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Integrin alpha 1 Protein (ITGA1) (AA 29-1141) (His tag)



Image



Overview

Quantity:	1 mg
Target:	Integrin alpha 1 (ITGA1)
Protein Characteristics:	AA 29-1141
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Integrin alpha 1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:

FNVDVKNSMT FSGPVEDMFG YTVQQYENEE GKWVLIGSPL VGQPKNRTGD VYKCPVGRGE SLPCVKLDLP VNTSIPNVTE VKENMTFGST LVTNPNGGFL ACGPLYAYRC GHLHYTTGIC SDVSPTFQVV NSIAPVQECS TQLDIVIVLD GSNSIYPWDS VTAFLNDLLE RMDIGPKQTQ VGIVQYGENV THEFNLNKYS STEEVLVAAK KIVQRGGRQT MTALGIDTAR KEAFTEARGA RRGVKKVMVI VTDGESHDNH RLKKVIQDCE DENIQRFSIA ILGSYNRGNL STEKFVEEIK SIASEPTEKH FFNVSDELAL VTIVKTLGER IFALEATADQ SAASFEMEMS QTGFSAHYSQ DWVMLGAVGA YDWNGTVVMQ KASQIIIPRN TTFNVESTKK NEPLASYLGY TVNSATASSG DVLYIAGQPR YNHTGQVIIY RMEDGNIKIL QTLSGEQIGS YFGSILTTTD IDKDSNTDIL LVGAPMYMGT EKEEQGKVYV YALNQTRFEY QMSLEPIKQT CCSSRQHNSC TTENKNEPCG ARFGTAIAAV KDLNLDGFND IVIGAPLEDD HGGAVYIYHG SGKTIRKEYA QRIPSGGDGK TLKFFGQSIH GEMDLNGDGL TDVTIGGLGG AALFWSRDVA VVKVTMNFEP NKVNIQKKNC HMEGKETVCI NATVCFDVKL KSKEDTIYEA DLQYRVTLDS LRQISRSFFS GTQERKVQRN

ITVRKSECTK HSFYMLDKHD FQDSVRITLD FNLTDPENGP VLDDSLPNSV HEYIPFAKDC GNKEKCISDL SLHVATTEKD LLIVRSQNDK FNVSLTVKNT KDSAYNTRTI VHYSPNLVFS GIEAIQKDSC ESNHNITCKV GYPFLRRGEM VTFKILFQFN TSYLMENVTI YLSATSDSEE PPETLSDNVV NISIPVKYEV GLQFYSSASE YHISIAANET VPEVINSTED IGNEINIFYL IRKSGSFPMP ELKLSISFPN MTSNGYPVLY PTGLSSSENA NCRPHIFEDP FSINSGKKMT TSTDHLKRGT ILDCNTCKFA TITCNLTSSD ISQVNVSLIL WKPTFIKSYF SSLNLTIRGE LRSENASLVL SSSNQKRELA IQISKDGLPG RVP

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 ITGA1 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:

- 1. 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.
- 2. Protein containing fractions of the best purification are subjected to second purification step

Product Details

through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot. >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot. 0.22 µm filtered Protein is endotoxin free. Crystallography grade
0.22 µm filtered Protein is endotoxin free.
Protein is endotoxin free.
Crystallography grade
Integrin alpha 1 (ITGA1)
ITGA1 (ITGA1 Products)
Integrin alpha-1/beta-1 is a receptor for laminin and collagen. It recognizes the proline-
hydroxylated sequence G-F-P-G-E-R in collagen. Involved in anchorage-dependent, negative
regulation of EGF-stimulated cell growth. {ECO:0000269 PubMed:15592458}.
124.4 kDa Including tag.
P56199
EGFR Signaling Pathway, CXCR4-mediated Signaling Events, Signaling of Hepatocyte Growth
Factor Receptor, Integrin Complex
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 gurante
though.
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
For Research Use only
Liquid
receive your protein of interest. For Research Use only Liquid

Handling

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)

Images

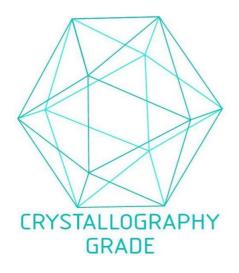


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process