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ITGAL Protein (AA 24-1087) (His tag)



Image



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Overview

Quantity:	1 mg
Target:	ITGAL
Protein Characteristics:	AA 24-1087
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ITGAL protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:

YNLDTRPTQS FLAQAGRHFG YQVLQIEDGV VVGAPGEGDN TGGLYHCRTS SEFCQPVSLH
GSNHTSKYLG MTLATDAAKG SLLACDPGLS RTCDQNTYLS GLCYLFPQSL EGPMLQNRPA
YQECMKGKVD LVFLFDGSQS LDRKDFEKIL EFMKDVMRKL SNTSYQFAAV QFSTDCRTEF
TFLDYVKQNK NPDVLLGSVQ PMFLLTNTFR AINYVVAHVF KEESGARPDA TKVLVIITDG
EASDKGNISA AHDITRYIIG IGKHFVSVQK QKTLHIFASE PVEEFVKILD TFEKLKDLFT DLQRRIYAIE
GTNRQDLTSF NMELSSSGIS ADLSKGHAVV GAVGAKDWAG GFLDLREDLQ GATFVGQEPL
TSDVRGGYLG YTVAWMTSRS SRPLLAAGAP RYQHVGQVLL FQAPEAGGRW NQTQKIEGTQ
IGSYFGGELC SVDLDQDGEA ELLLIGAPLF FGEQRGGRVF TYQRRQSLFE MVSELQGDPG
YPLGRFGAAI TALTDINGDR LTDVAVGAPL EEQGAVYIFN GKPGGLSPQP SQRIQGAQVF
PGIRWFGRSI HGVKDLGGDR LADVVVGAEG RVVVLSSRPV VDVVTELSFS PEEIPVHEVE
CSYSAREEQK HGVKLKACFR IKPLTPQFQG RLLANLSYTL QLDGHRMRSR GLFPDGSHEL
SGNTSITPDK SCLDFHFHFP ICIQDLISPI NVSLNFSLLE EEGTPRDQKG RAMQPILRPS

IHTVTKEIPF EKNCGEDKKC EANLTLSSPA RSGPLRLMSS ASLAVEWTLS NSGEDAYWVR LDLDFPRGLS FRKVEMLQPH SRMPVSCEEL TEGSSLLTKT LKCNVSSPIF KAGQEVSLQV MFNTLLNSSW EDFVELNGTV HCENENSSLQ EDNSAATHIP VLYPVNILTK EQENSTLYIS FTPKGPKTQQ VQHVYQVRIQ PSAYDHNMPT LEALVGVPWP HSEDPITYTW SVQTDPLVTC HSEDLKRPSS EAEQPCLPGV QFRCPIVFRR EILIQVTGTV ELSKEIKASS TLSLCSSLSV SFNSSKHFHL YGSKASEAQV LVKVDLIHEK EMLH

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.
- Mouse Itgal 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.
- 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.

Product Details >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot. Purity: Sterility: 0.22 µm filtered Endotoxin Level: Protein is endotoxin free Grade: Crystallography grade **Target Details** Target: **ITGAL** Itgal (ITGAL Products) Alternative Name: Background: Integrin alpha-L/beta-2 is a receptor for ICAM1, ICAM2, ICAM3 and ICAM4 (PubMed:2051027). Integrin alpha-L/beta-2 is also a receptor for F11R (By similarity). Involved in a variety of immune phenomena including leukocyte-endothelial cell interaction, cytotoxic T-cell mediated killing, and antibody dependent killing by granulocytes and monocytes. Contributes to natural killer cell cytotoxicity. Involved in leukocyte adhesion and transmigration of leukocytes including T-cells and neutrophils (PubMed:16234355, PubMed:24158516). Required for generation of common lymphoid progenitor cells in bone marrow, indicating the role in lymphopoiesis (PubMed:25108025). Integrin alpha-L/beta-2 in assosiation with ICAM3, contributes to apoptotic neutrophil phagocytosis by macrophages. {ECO:0000250|UniProtKB:P20701, ECO:0000269|PubMed:16234355, ECO:0000269|PubMed:2051027, ECO:0000269|PubMed:24158516, ECO:0000269|PubMed:25108025}. Molecular Weight: 118.6 kDa Including tag. UniProt: P24063 Pathways: Activated T Cell Proliferation, 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: Protein has not been tested for activity yet. 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

options with you in detail to assure that you receive your protein of interest.

molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible

Application Details

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)

Images

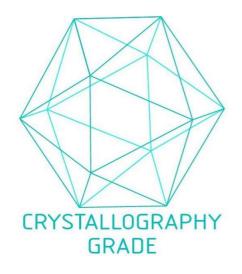


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process