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Cullin 5 Protein (CUL5) (AA 2-780) (His tag)



Image



Overview

Quantity:	1 mg
Target:	Cullin 5 (CUL5)
Protein Characteristics:	AA 2-780
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Cullin 5 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:

ATSNLLKNKG SLQFEDKWDF MHPIVLKLLR QESVTKQQWF DLFSDVHAVC LWDDKGSSKI HQALKEDILE FIKQAQARVL SHQDDTALLK AYIVEWRKFF TQCDILPKPF CQLEVTLLGK QSSNKKSNME DSIVRKLMLD TWNESIFSNI KNRLQDSAMK LVHAERLGEA FDSQLVIGVR ESYVNLCSNP EDKLQIYRDN FEKAYLDSTE RFYRTQAPSY LQQNGVQNYM KYADAKLKEE EKRALRYLET RRECNSVEAL MECCVNALVT SFKETILAEC QGMIKRNETE KLHLMFSLMD KVPNGIEPML KDLEEHIISA GLADMVAAAE TITTDSEKYV EQLLTLFNRF SKLVKEAFQD DPRFLTARDK AYKAVVNDAT IFKLELPLKQ KGVGLKTQPE SKCPELLANY CDMLLRKTPL SKKLTSEEIE AKLKEVLLVL KYVQNKDVFM RYHKAHLTRR LILDISADSE IEENMVEWLR EVGMPADYVN KLARMFQDIK VSEDLNQAFK EMHKNNKLAL PADSVNIKIL NAGAWSRSSE KVFVSLPTEL EDLIPEVEEF YKKNHSGRKL HWHHLMSNGI ITFKNEVGQY DLEVTTFQLA VLFAWNQRPR EKISFENLKL ATELPDAELR RTLWSLVAFP KLKRQVLLYD PQVNSPKDFT EGTLFSVNQD FSLIKNAKVQ KRGKINLIGR LQLTTERMRE EENEGIVQLR ILRTQEAIIQ

Sterility:

Endotoxin Level:

IMKMRKKISN AQLQTELVEI LKNMFLPQKK MIKEQMEWLI EHRYIRRDEA DINTFIYMA 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 Cul5 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 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.

0.22 µm filtered

Protein is endotoxin free.

Product Details	
Grade:	Crystallography grade
Target Details	
Target:	Cullin 5 (CUL5)
Alternative Name:	Cul5 (CUL5 Products)
Background:	Core component of multiple SCF-like ECS (Elongin BC-Cullin 2/5-SOCS-box protein) E3 ubiquitin-protein ligase complexes, which mediate the ubiquitination and subsequent proteasomal degradation of target proteins. As a scaffold protein may contribute to catalysis through positioning of the substrate and the ubiquitin-conjugating enzyme. The functional specificity of the E3 ubiquitin-protein ligase complex depends on the variable substrate recognition component. ECS(SOCS1) seems to direct ubiquitination of JAK2. Seems to be involved in proteosomal degradation of p53/TP53 stimulated by adenovirus E1B-55 kDa protein. May form a cell surface vasopressin receptor. {ECO:0000269 PubMed:23806657}.
Molecular Weight:	91.8 kDa Including tag.
UniProt:	Q9D5V5
Pathways:	Regulation of Muscle Cell Differentiation, Skeletal Muscle Fiber Development
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 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.

Handling

Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

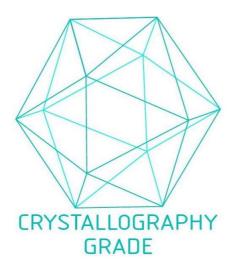


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process