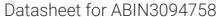
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PRDM15 Protein (AA 1-1507) (Strep Tag)





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Overview

| Quantity: | 1 mg |
|-------------------------------|---|
| Target: | PRDM15 |
| Protein Characteristics: | AA 1-1507 |
| Origin: | Human |
| Source: | Tobacco (Nicotiana tabacum) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This PRDM15 protein is labelled with Strep Tag. |
| Application: | ELISA, Western Blotting (WB), SDS-PAGE (SDS) |

Product Details

Sequence:

MPRRRPPASG AAQFPERIAT RSPDPIPLCT FQRQPRAAPV QPPCRLFFVT FAGCGHRWRS
ESKPGWISRS RSGIALRAAR PPGSSPPRPA APRPPPPGGV VAEAPGDVVI PRPRVQPMRV
ARGGPWTPNP AFREAESWSQ IGNQRVSEQL LETSLGNEVS DTEPLSPASA GLRRNPALPP
GPFAQNFSWG NQENLPPALG KIANGGGTGA GKAECGYETE SHLLEPHEIP LNVNTHKFSD
CEFPYEFCTV CFSPFKLLGM SGVEGVWNQH SRSASMHTFL NHSATGIREA GCRKDMPVSE
MAEDGSEEIM FIWCEDCSQY HDSECPELGP VVMVKDSFVL SRARSWPASG HVHTQAGQGM
RGYEDRDRAD PQQLPEAVPA GLVRRLSGQQ LPCRSTLTWG RLCHLVAQGR SSLPPNLEIR
RLEDGAEGVF AITQLVKRTQ FGPFESRRVA KWEKESAFPL KVFQKDGHPV CFDTSNEDDC
NWMMLVRPAA EAEHQNLTAY QHGSDVYFTT SRDIPPGTEL RVWYAAFYAK KMDKPMLKQA
GSGVHAAGTP ENSAPVESEP SQWACKVCSA TFLELQLLNE HLLGHLEQAK SLPPGSQSEA
AAPEKEQDTP RGEPPAVPES ENVATKEQKK KPRRGRKPKV SKAEQPLVIV EDKEPTEQVA
EIITEVPPDE PVSATPDERI MELVLGKLAT TTTDTSSVPK FTHHQNNTIT LKRSLILSSR

HGIRRKLIKQ LGEHKRVYQC NICSKIFQNS SNLSRHVRSH GDKLFKCEEC AKLFSRKESL KQHVSYKHSR NEVDGEYRYR CGTCEKTFRI ESALEFHNCR TDDKTFQCEM CFRFFSTNSN LSKHKKKHGD KKFACEVCSK MFYRKDVMLD HQRRHLEGVR RVKREDLEAG GENLVRYKKE PSGCPVCGKV FSCRSNMNKH LLTHGDKKYT CEICGRKFFR VDVLRDHIHV HFKDIALMDD HQREEFIGKI GISSEENDDN SDESADSEPH KYSCKRCQLT FGRGKEYLKH IMEVHKEKGY GCSICNRRFA LKATYHAHMV IHRENLPDPN VQKYIHPCEI CGRIFNSIGN LERHKLIHTG VKSHACEQCG KSFARKDMLK EHMRVHDNVR EYLCAECGKG MKTKHALRHH MKLHKGIKEY ECKECHRRFA QKVNMLKHCK RHTGIKDFMC ELCGKTFSER NTMETHKLIH TVGKQWTCSV CDKKYVTEYM LQKHVQLTHD KVEAQSCQLC GTKVSTRASM SRHMRRKHPE VLAVRIDDLD HLPETTTIDA SSIGIVQPEL TLEQEDLAEG KHGKAAKRSH KRKQKPEEEA GAPVPEDATF SEYSEKETEF TGSVGDETNS AVQSIQQVVV TLGDPNVTTP SSSVGLTNIT VTPITTAAAT QFTNLQPVAV GHLTTPERQL QLDNSILTVT FDTVSGSAML HNRQNDVQIH PQPEASNPQS VAHFINLTTL VNSITPLGSQ LSDQHPLTWR AVPQTDVLPP SQPQAPPQQA AQPQVQAEQQ QQQMYSY

Sequence without tag. The proposed Strep-Tag is based on experience s with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:

Key Benefits:

- Made in Germany from design to production by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

Expression System:

 ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications. During lysate production, the cell wall and other cellular components that are not required for
protein production are removed, leaving only the protein production machinery and the
mitochondria to drive the reaction. During our lysate completion steps, the additional
components needed for protein production (amino acids, cofactors, etc.) are added to
produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

Concentration:

- 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.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

- 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. 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:

>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Endotoxin Level:

Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

Grade:

Target:

Crystallography grade

PRDM15

Target Details

| Alternative Name: | PRDM15 (PRDM15 Products) |
|-------------------|---|
| Background: | PR domain zinc finger protein 15 (EC 2.1.1) (PR domain-containing protein 15) (Zinc finger |
| | protein 298),FUNCTION: Sequence-specific DNA-binding transcriptional regulator. Plays a role |
| | as a molecular node in a transcriptional network regulating embryonic development and cell |
| | fate decision. Stimulates the expression of upstream key transcriptional activators and |
| | repressors of the Wnt/beta-catenin and MAPK/ERK pathways, respectively, that are essential |
| | for naive pluripotency and self-renewal maintenance of embryonic stem cells (ESCs). |
| | Specifically promotes SPRY1 and RSP01 transcription activation through recognition and direct |

Target Details

| - arget betails | |
|---------------------|---|
| | binding of a specific DNA sequence in their promoter regions. Involved in early embryo development (By similarity). Also plays a role in induced pluripotent stem cells (iPSCs) reprogramming (PubMed:28740264). {ECO:0000250 UniProtKB:E9Q8T2, ECO:0000269 PubMed:28740264}. |
| Molecular Weight: | 169.3 kDa |
| UniProt: | P57071 |
| 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 guarantee though. |
| Comment: | ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications. |
| | During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein! |
| Restrictions: | For Research Use only |
| Handling | |
| Format: | Liquid |
| Buffer: | The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us. |
| Handling Advice: | Avoid repeated freeze-thaw cycles. |
| Storage: | -80 °C |
| Storage Comment: | Store at -80°C. |
| Expiry Date: | Unlimited (if stored properly) |

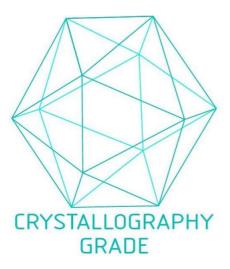


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process