Datasheet for ABIN3094713

Progesterone Receptor Protein (PGR) (AA 1-933) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	Progesterone Receptor (PGR)
Protein Characteristics:	AA 1-933
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Progesterone Receptor protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	MTELKAKGPR APHVAGGPPS PEVGSPLLCR PAAGPFPGSQ TSDTLPEVSA IPISLDGLLF PRPCQGQDPS DEKTQDQQSL SDVEGAYSRA EATRGAGGSS SSPPEKDSGL LDSVLDTLLA PSGPGQSQPS PPACEVTSSW CLFGPELPED PPAAPATQRV LSPLMSRSGC KVGDSSGTAA AHKVLPRGLS PARQLLLPAS ESPHWSGAPV KPSPQAAAVE VEEEDGSESE ESAGPLLKGK PRALGGAAAG GGAAAVPPGA AAGGVALVPK EDSRFSAPRV ALVEQDAPMA PGRSPLATTV MDFIHVPILP LNHALLAART RQLLEDESYD GGAGAASAFA PPRSSPCASS TPVAVGDFPD CAYPPDAEPK DDAYPLYSDF QPPALKIKEE EEGAEASARS PRSYLVAGAN PAAFPDFPLG PPPPLPPRAT PSRPGEAAVT AAPASASVSS ASSSGSTLEC ILYKAEGAPP QQGPFAPPPC KAPGASGCLL PRDGLPSTSA SAAAAGAAPA LYPALGLNGL PQLGYQAAVL KEGLPQVYPP YLNYLRPDSE ASQSPQYSFE SLPQKICLIC GDEASGCHYG VLTCGSCKVF FKRAMEGQHN YLCAGRNDCI VDKIRRKNCP ACRLRKCCQA GMVLGGRKFK KFNKVRVVRA LDAVALPQPV

GVPNESQALS QRFTFSPGQD IQLIPPLINL LMSIEPDVIY AGHDNTKPDT SSSLLTSLNQ LGERQLLSVV KWSKSLPGFR NLHIDDQITL IQYSWMSLMV FGLGWRSYKH VSGQMLYFAP DLILNEQRMK ESSFYSLCLT MWQIPQEFVK LQVSQEEFLC MKVLLLLNTI PLEGLRSQTQ FEEMRSSYIR ELIKAIGLRQ KGVVSSSQRF YQLTKLLDNL HDLVKQLHLY CLNTFIQSRA LSVEFPEMMS EVIAAQLPKI LAGMVKPLLF HKK

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 in one-step affinity chromatography
- 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 try to ensure that you receive soluble 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 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!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Product Details

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	Progesterone Receptor (PGR)
Alternative Name:	PGR (PGR Products)
Background:	Progesterone receptor (PR) (Nuclear receptor subfamily 3 group C member 3),FUNCTION: The steroid hormones and their receptors are involved in the regulation of eukaryotic gene expression and affect cellular proliferation and differentiation in target tissues. Depending on the isoform, progesterone receptor functions as a transcriptional activator or repressor. {ECO:0000269|PubMed:10757795, ECO:0000269|PubMed:1587864, ECO:0000269|PubMed:9407067, ECO:0000305}., FUNCTION: [Isoform A]: Ligand-dependent transdominant repressor of steroid hormone receptor transcriptional activity including repression of its isoform B, MR and ER. Transrepressional activity may involve recruitment of corepressor NCOR2. {ECO:0000269|PubMed:7969170, ECO:0000269|PubMed:8180103, ECO:0000269|PubMed:8264658, ECO:0000305, ECO:0000305|PubMed:10757795}., FUNCTION: [Isoform B]: Transcriptional activator of several progesteron-dependent promoters in a variety of cell types. Involved in activation of SRC-dependent MAPK signaling on hormone stimulation. {ECO:0000269|PubMed:7969170}., FUNCTION: [Isoform 4]: Increases mitochondrial membrane potential and cellular respiration upon stimulation by progesterone.
Molecular Weight:	99.0 kDa
UniProt:	P06401
Pathways:	Nuclear Receptor Transcription Pathway, Intracellular Steroid Hormone Receptor Signaling Pathway, Steroid Hormone Mediated Signaling Pathway, Smooth Muscle Cell Migration

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.

Application Details

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. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months