Datasheet for ABIN3135834

RXFP1 Protein (AA 1-758) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	RXFP1
Protein Characteristics:	AA 1-758
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RXFP1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	MTSGPFFFCI FIIGKYFTLG SAQDVSCPLG SFPCGNMSRC LPQLLHCNGV DDCGNRADED HCGDNNGWSL QLDKYFANYY KLASTNSFEA ETSECLVGSV PMHCLCRDLE LDCDEANLRA VPSVSSNVTV MSLQRNFIRT LPPNGFRKYH ELQKLCLQNN RIHSVSVSAF RGLRSLTKLY LSHNRITFLK PGVFEDLHRL EWLIIEDNHL SRISPLTFYG LNSLILLVLM NNALTRLPDK PLCQHMPRLH WLDFEGNRIH NLRNLTFISC NNLTVLVMRK NKINYLNEHA FTHLQKLDEL DLGSNKIENL PPNIFKDLKE LSQLNISYNP IQKIEVNQFD CLAKLKSLSL EGIEISNIQQ RMFRPLINLS HIYFKKFQYC GYAPHVRSCK PNTDGISSLE NLLASIIQRV FVWVVSAITC FGNIFVICMR PYIRSENKLH AMSIISLCCA DCLMGVYLFV IGAFDLKFRG EYNKHAQPWM ESVHCQFMGS LAILSTEVSV LLLTFLTLEK YICIVYPFRC LRPRKCRTIT VLIFIWIIGF IVAFAPLGNK EFFKNYYGTN GVCFPLHSED TGSTGAQIYS VVIFLGINLV AFIIIVFSYG SMFYSVHQSS VTVTEIQKQV KKEVVLAKRF FFIVFTDALC WIPIFILKFL SLLQVEIPDS ITSWVVIFIL PINSALNPII YTLTTRPFKE

MIHQLWHNYR QRRSVDRKET QKAYAPSFIW VEMWPLQEMS SGFMKPGAFT DPCDLSLVSQ SSRLNSYS

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.

Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).

Product Details

Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	RXFP1
Alternative Name:	Rxfp1 (RXFP1 Products)
Background:	Relaxin receptor 1 (Leucine-rich repeat-containing G-protein coupled receptor 7) (Relaxin family peptide receptor 1),FUNCTION: Receptor for relaxins. The activity of this receptor is mediated by G proteins leading to stimulation of adenylate cyclase and an increase of cAMP. Binding of the ligand may also activate a tyrosine kinase pathway that inhibits the activity of a phosphodiesterase that degrades cAMP. {ECO:0000269|PubMed:15566402}.
Molecular Weight:	87.0 kDa
UniProt:	Q6R6I7
Pathways:	Myometrial Relaxation and Contraction

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. 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