

Datasheet for ABIN3127715

GLYR1 Protein (AA 1-546) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	GLYR1
Protein Characteristics:	AA 1-546
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GLYR1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AlIcE®
Sequence:	<p>MAAVSLRLGD LVWGKLG RYP PWP GKIVNPP KDLKKPRGKK CFFVKFFGTE DHAWIKVEQL KPYHAHKEEM IKINKGKRFQ QAVDAVEEFL RRAKGKDQTS SHTSADDKNR RNSSEERSRP NSGDEKRKLS LSEGKVKKNM GEGKKRVTSG SADRGSKCLK RAQE QSPRKR GRPPKDEKDL TIPSSTVKG MMAGPMAAFK WQPTATEPVK DADPHFHHFL LSQTEKPAVC YQAITKKLKI CEEETGSTSI QAADSTAVNG SITPTDKKIG FLGLGLMGSG IVSNLLKMGH TVTVWNRTAE KEGARLGRTP AEVVSTCDIT FACVSDPKAA KDLVLGPGSV LQGIRPGKCY VDMSTVDADT VTELAQVIVS RGGRFLEAPV SGNQQLSNDG MLVILAAGDR GLYEDCSSCF QAMGKTSFFL GEVGNAAKMM LIVNMVQGSF MATIAEGLTL AQVTGQSQQT LLDILNQGQL ASIFLDQKCQ NILQGNFKPD FYLKYIQKDL RLAIALGDAV NHPTPMAAAA NEVYKRAKAL DQSDNDMSAV YRAYIH</p>

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®).

Purity:

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

Grade:

custom-made

Target Details

Target:	GLYR1
Alternative Name:	Glyr1 (GLYR1 Products)
Background:	<p>Cytokine-like nuclear factor N-PAC (NPAC) (Glyoxylate reductase 1 homolog) (Nuclear protein NP60) (Putative oxidoreductase GLYR1),FUNCTION: Cytokine-like nuclear factor with chromatin gene reader activity involved in chromatin modification and regulation of gene expression (PubMed:29759984). Acts as a nucleosome-destabilizing factor that is recruited to genes during transcriptional activation. Recognizes and binds histone H3 without a preference for specific epigenetic markers and also binds DNA. Interacts with KDM1B and promotes its histone demethylase activity by facilitating the capture of H3 tails, they form a multifunctional enzyme complex that modifies transcribed chromatin and facilitates Pol II transcription through nucleosomes. Stimulates the acetylation of 'Lys-56' of nucleosomal histone H3 (H3K56ac) by EP300 (By similarity). With GATA4, co-binds a defined set of heart development genes and coregulates their expression during cardiomyocyte differentiation (PubMed:35182466). Regulates p38 MAP kinase activity by mediating stress activation of MAPK14/p38alpha and specifically regulating MAPK14 signaling. Indirectly promotes phosphorylation of MAPK14 and activation of ATF2. The phosphorylation of MAPK14 requires upstream activity of MAP2K4 and MAP2K6 (By similarity). {ECO:0000250 UniProtKB:Q49A26, ECO:0000269 PubMed:29759984, ECO:0000269 PubMed:35182466}.</p>
Molecular Weight:	59.7 kDa
UniProt:	Q922P9

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:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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</p>

Application Details

	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!
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Restrictions:	For Research Use only
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Handling

Format:	Liquid
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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.
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Handling Advice:	Avoid repeated freeze-thaw cycles.
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Storage:	-80 °C
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Storage Comment:	Store at -80°C.
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Expiry Date:	12 months
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