

Datasheet for ABIN3095157 RUNX1 Protein (AA 1-453) (Strep Tag)



Overview

Quantity:	250 µg
Target:	RUNX1
Protein Characteristics:	AA 1-453
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RUNX1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	MRIPVDASTS RRFTPPSTAL SPGKMSEALP LGAPDAGAAL AGKLRSGDRS MVEVLADHPG
	ELVRTDSPNF LCSVLPTHWR CNKTLPIAFK VVALGDVPDG TLVTVMAGND ENYSAELRNA
	TAAMKNQVAR FNDLRFVGRS GRGKSFTLTI TVFTNPPQVA TYHRAIKITV DGPREPRRHR
	QKLDDQTKPG SLSFSERLSE LEQLRRTAMR VSPHHPAPTP NPRASLNHST AFNPQPQSQM
	QDTRQIQPSP PWSYDQSYQY LGSIASPSVH PATPISPGRA SGMTTLSAEL SSRLSTAPDL
	TAFSDPRQFP ALPSISDPRM HYPGAFTYSP TPVTSGIGIG MSAMGSATRY HTYLPPPYPG
	SSQAQGGPFQ ASSPSYHLYY GASAGSYQFS MVGGERSPPR ILPPCTNAST GSALLNPSLP
	NQSDVVEAEG SHSNSPTNMA PSARLEEAVW RPY
	Sequence without tag. The proposed Strep-Tag is based on experience \ensuremath{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.

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Product Details

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 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 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

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Target:	RUNX1
Alternative Name:	RUNX1 (RUNX1 Products)
Background:	Runt-related transcription factor 1 (Acute myeloid leukemia 1 protein) (Core-binding factor
	subunit alpha-2) (CBF-alpha-2) (Oncogene AML-1) (Polyomavirus enhancer-binding protein 2
	alpha B subunit) (PEA2-alpha B) (PEBP2-alpha B) (SL3-3 enhancer factor 1 alpha B subunit)
	(SL3/AKV core-binding factor alpha B subunit),FUNCTION: Forms the heterodimeric complex
	core-binding factor (CBF) with CBFB. RUNX members modulate the transcription of their target
	genes through recognizing the core consensus binding sequence 5'-TGTGGT-3', or very rarely,
	5'-TGCGGT-3', within their regulatory regions via their runt domain, while CBFB is a non-DNA-
	binding regulatory subunit that allosterically enhances the sequence-specific DNA-binding
	capacity of RUNX. The heterodimers bind to the core site of a number of enhancers and
	promoters, including murine leukemia virus, polyomavirus enhancer, T-cell receptor enhancers,
	LCK, IL3 and GM-CSF promoters (Probable). Essential for the development of normal
	hematopoiesis (PubMed:17431401). Acts synergistically with ELF4 to transactivate the IL-3
	promoter and with ELF2 to transactivate the BLK promoter (PubMed:10207087,
	PubMed:14970218). Inhibits KAT6B-dependent transcriptional activation (By similarity).
	Involved in lineage commitment of immature T cell precursors. CBF complexes repress
	ZBTB7B transcription factor during cytotoxic (CD8+) T cell development. They bind to RUNX-
	binding sequence within the ZBTB7B locus acting as transcriptional silencer and allowing for
	cytotoxic T cell differentiation. CBF complexes binding to the transcriptional silencer is
	essential for recruitment of nuclear protein complexes that catalyze epigenetic modifications to
	establish epigenetic ZBTB7B silencing (By similarity). Controls the anergy and suppressive
	function of regulatory T-cells (Treg) by associating with FOXP3. Activates the expression of IL2
	and IFNG and down-regulates the expression of TNFRSF18, IL2RA and CTLA4, in conventional
	T-cells (PubMed:17377532). Positively regulates the expression of RORC in T-helper 17 cells
	(By similarity). {ECO:0000250 UniProtKB:Q03347, ECO:0000269 PubMed:10207087,
	ECO:0000269 PubMed:11965546, ECO:0000269 PubMed:14970218,
	ECO:0000269 PubMed:17377532, ECO:0000269 PubMed:17431401, ECO:0000305}.,
	FUNCTION: Isoform AML-1G shows higher binding activities for target genes and binds TCR-
	beta-E2 and RAG-1 target site with threefold higher affinity than other isoforms. It is less
	effective in the context of neutrophil terminal differentiation.
	{ECO:0000250 UniProtKB:Q03347}., FUNCTION: Isoform AML-1L interferes with the
	transactivation activity of RUNX1. {ECO:0000269 PubMed:9199349}.
Molecular Weight:	48.7 kDa

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Target Details	
UniProt:	Q01196
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