

Datasheet for ABIN3131864 IMPACT Protein (AA 1-318) (Strep Tag)



Overview

Quantity:	250 μg
Target:	IMPACT
Protein Characteristics:	AA 1-318
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This IMPACT protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Dataila

Product Details	
Brand:	AliCE®
Sequence:	MAEEEVGNSQ RQSEEIEAMA AIYGEEWCVI DENAKIFCIR VTDFMDDPKW TLCLQVMLPS
	EYPGTAPPSY QLNAPWLKGQ ERADLSNSLE EIYVHNMGES ILYQWVEKIR DALIQKSQIT
	EPDPDVKKKT EEVEVESEED PILEHPPENP VKTLDLKISE ETQPETEELP PVAHGVPITD
	RRSTFQAHVA PVVCPEQVKL VLAKLYENKK IASATHNIYA YRIFCEDKQT FLQDCEDDGE
	TAAGGRLLHL MEILNVKNVM VVVSRWYGGI LLGPDRFKHI NNCARNILVE KNFTNTPDES
	TKNLGKKKVK KDKKKNDH
	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 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
Target Details	
Target:	IMPACT

Target Details

Alternative Name:	Impact (IMPACT Products)
Background:	Protein IMPACT (Imprinted and ancient gene protein),FUNCTION: Translational regulator that
	ensures constant high levels of translation upon a variety of stress conditions, such as amino
	acid starvation, UV-C irradiation, proteasome inhibitor treatment and glucose deprivation. Plays
	a role as a negative regulator of the EIF2AK4/GCN2 kinase activity, impairs GCN1-mediated
	EIF2AK4/GCN2 activation, and hence EIF2AK4/GCN2-mediated eIF-2-alpha phosphorylation
	and subsequent down-regulation of protein synthesis (PubMed:15937339, PubMed:23447528,
	PubMed:24333428). May be required to regulate translation in specific neuronal cells under
	amino acid starvation conditions by preventing GCN2 activation and therefore ATF4 synthesis
	(PubMed:15937339, PubMed:23447528). Through its inhibitory action on EIF2AK4/GCN2, plays
	a role in differentiation of neuronal cells by stimulating neurite outgrowth (PubMed:23447528).
	{ECO:0000269 PubMed:15937339, ECO:0000269 PubMed:23447528,
	ECO:0000269 PubMed:24333428}.
Molecular Weight:	36.3 kDa
JniProt:	055091
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:	guarantee though.
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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