

Datasheet for ABIN7562477

**IMPACT Protein (AA 1-318) (His tag)**[Go to Product page](#)

## Overview

Quantity:	1 mg
Target:	IMPACT
Protein Characteristics:	AA 1-318
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IMPACT protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat Impact Protein expressed in mammalien cells.
Sequence:	MAEEEVGNSQ RQSEEIEMA AIYGEEWCVI DENAKIFCIR VTDFMDDPKW TLCLQVMLPS EYPGTAPPSY QLNAPWLKGQ ERADLSNSLE EIYVHNMGES ILYQWVEKIR DALIQKSQIT EPDPDVKKKT EEVEVESEED PILEHPPENP VKTLDLKISE ETQPETEELP PVAHGVPITD RRSTFQAHVA PVVCPEQVKL VLAKLYENKK IASATHNIYA YRIFCEDKQT FLQDCEDDGE TAAGRLLHL MEILNVKNVM VVSRWYGGI LLGPDRFKHI NNCARNILVE KNFTNTPDES TKNLGKKKVK KDKKKNDH <b>Sequence without tag. The proposed Purification-Tag is based on experiences 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.</b>
Characteristics:	Key Benefits: <ul style="list-style-type: none"><li>• Made to order protein - from design to production - by highly experienced protein experts.</li></ul>

## Product Details

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- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

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Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
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Grade:	custom-made
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## Target Details

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Target:	IMPACT
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Alternative Name:	Impact ( <a href="#">IMPACT Products</a> )
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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}.
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Molecular Weight:	36.3 kDa
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UniProt:	<a href="#">O55091</a>
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## Application Details

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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.

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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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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