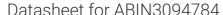
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GADD34 Protein (AA 1-674) (Strep Tag)





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Overview

Quantity:	1 mg
Target:	GADD34 (PPP1R15A)
Protein Characteristics:	AA 1-674
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GADD34 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Sequence:

MAPGQAPHQA TPWRDAHPFF LLSPVMGLLS RAWSRLRGLG PLEPWLVEAV KGAALVEAGL EGEARTPLAI PHTPWGRRPE EEAEDSGGPG EDRETLGLKT SSSLPEAWGL LDDDDGMYGE REATSVPRGQ GSQFADGQRA PLSPSLLIRT LQGSDKNPGE EKAEEEGVAE EEGVNKFSYP PSHRECCPAV EEEDDEEAVK KEAHRTSTSA LSPGSKPSTW VSCPGEEENQ ATEDKRTERS KGARKTSVSP RSSGSDPRSW EYRSGEASEE KEEKAHKETG KGEAAPGPQS SAPAQRPQLK SWWCQPSDEE EGEVKALGAA EKDGEAECPP CIPPPSAFLK AWVYWPGEDT EEEEDEEDE DSDSGSDEEE GEAEASSSTP ATGVFLKSWV YQPGEDTEEE EDEDSDTGSA EDEREAETSA STPPASAFLK AWVYRPGEDT EEEEDEDVDS EDKEDDSEAA LGEAESDPHP SHPDQRAHFR GWGYRPGKET EEEEAAEDWG EAEPCPFRVA IYVPGEKPPP PWAPPRLPLR LQRRLKRPET PTHDPDPETP LKARKVRFSE KVTVHFLAVW AGPAQAARQG PWEQLARDRS RFARRITQAQ EELSPCLTPA ARARAWARLR NPPLAPIPAL TQTLPSSSVP SSPVQTTPLS QAVATPSRSS AAAAAALDLS GRRG

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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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 will ensure that you receive a correctly folded 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 in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

- 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.
- 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot

Purity: >80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Endotoxin Level: Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

Grade: Crystallography grade

Target Details

UniProt:

GADD34 (PPP1R15A) Target: Alternative Name: PPP1R15A (PPP1R15A Products)

Background:

Protein phosphatase 1 regulatory subunit 15A (Growth arrest and DNA damage-inducible protein GADD34) (Myeloid differentiation primary response protein MyD116 homolog), FUNCTION: Recruits the serine/threonine-protein phosphatase PPP1CA to prevents excessive phosphorylation of the translation initiation factor eIF-2A/EIF2S1, thereby reversing the shut-off of protein synthesis initiated by stress-inducible kinases and facilitating recovery of cells from stress (PubMed:26742780, PubMed:26095357). Down-regulates the TGF-beta signaling pathway by promoting dephosphorylation of TGFB1 by PP1 (PubMed:14718519). May promote apoptosis by inducing p53/TP53 phosphorylation on 'Ser-15' (PubMed:14635196). Plays an essential role in autophagy by tuning translation during starvation, thus enabling lysosomal biogenesis and a sustained autophagic flux (PubMed:32978159). Acts also a viral restriction factor by attenuating HIV-1 replication (PubMed:31778897). Mechanistically, mediates the inhibition of HIV-1 TAR RNA-mediated translation (PubMed:31778897). {ECO:0000269|PubMed:11564868, ECO:0000269|PubMed:12556489, ECO:0000269|PubMed:14635196, ECO:0000269|PubMed:14718519, ECO:0000269|PubMed:26095357, ECO:0000269|PubMed:31778897,

ECO:0000269|PubMed:8139541}., FUNCTION: (Microbial infection) Promotes enterovirus 71 replication by mediating the internal ribosome entry site (IRES) activity of viral 5'-UTR.

{ECO:0000269|PubMed:34985336}.

Molecular Weight: 73.5 kDa

Pathways: ER-Nucleus Signaling, Unfolded Protein Response

075807

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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. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)



Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process