

Datasheet for ABIN7562916

GADD34 Protein (AA 1-657) (His tag)



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Overview

Quantity:	1 mg
Target:	GADD34 (PPP1R15A)
Protein Characteristics:	AA 1-657
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GADD34 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Ppp1r15a Protein expressed in mammalian cells.
Sequence:	<p>MAPSPRPQHV LHWDAHNFY LLSPLMGLLS RAW SRLRGPE VPEAWLAKTV TGADQIEAAA</p> <p>LLTPTPVSGN LLPHGTEES GSPEQSQAAQ RLCLVEAESS PPETWGLSNV DEYNAKPGQD</p> <p>DLREKEMERT AGKATLQPAG LQGADKRLGE VVAREEGVAE PAYPTSQLEG GPAENEEDGE</p> <p>TVKTYQASAA SIAPGYKPST PVPFLGAEH QATEEKG TEN KADPSNSPSS GSHSRAW EYY</p> <p>SREKPKQEGE AKVEAHRAGQ GHPCRNAEAE EGGPETTFVC TGN AFLKAWV YRPGEDTEEE</p> <p>DNSDSDSAEE DTAQTGATPH TSAFLKAWVY R PGEDTEEEED SDSDSA EEDT AQTGATPHTS</p> <p>AFLKAWVYRP GEDTEEE NSD LDSAEEDTAQ TGATPHTSAF LKAWVYRPGE DTEEE NSDL D</p> <p>SAEEDTAQTG ATPHTSPFLK AWVYRPGEDT EDDTEEE EDS ENVAPGDSET ADSSQSPCLQ</p> <p>PQRCLPGEKT KGRGEEPLF QVAFYLPGEK PES PWAAPKL PLRLQRRRLRL FKAPTRDQDP</p> <p>EIPLKARKVH FAEKVT VHFL AVWAGPAQAA RRG PWEQFAR DRS RFARRIA QAEEKLG PYL</p> <p>TPDSRARAWA RLRNPSLPQS EPRSSSEATP LTQDVTTPSP LPSETPSPSL YLGGRRG Sequence</p>

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.

Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none">• Made to order protein - from design to production - by highly experienced protein experts.• 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). <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	GADD34 (PPP1R15A)
Alternative Name:	Ppp1r15a (PPP1R15A Products)
Background:	<p>Protein phosphatase 1 regulatory subunit 15A (Growth arrest and DNA damage-inducible protein GADD34) (Myeloid differentiation primary response protein MyD116),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:11381086, PubMed:12824288). Down-regulates the TGF-beta signaling pathway by promoting dephosphorylation of TGFB1 by PP1 (By similarity). May promote apoptosis by inducing TP53 phosphorylation on 'Ser-15' (By similarity). Plays an essential role in autophagy by tuning translation during starvation, thus enabling lysosomal biogenesis and a sustained autophagic flux (By similarity). Acts also a viral restriction factor by attenuating</p>

Target Details

vesicular stomatitis virus (VSV) replication (PubMed:17670836).
{ECO:0000250|UniProtKB:O75807, ECO:0000269|PubMed:11381086,
ECO:0000269|PubMed:12606582, ECO:0000269|PubMed:12824288,
ECO:0000269|PubMed:16478986, ECO:0000269|PubMed:17670836}.

Molecular Weight: 71.8 kDa

UniProt: [P17564](#)

Pathways: [ER-Nucleus Signaling](#), [Unfolded Protein Response](#)

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.

Restrictions: For Research Use only

Handling

Format: Liquid

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

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months