

Datasheet for ABIN7555080

GADD34 Protein (AA 1-674) (His tag)



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Overview

Quantity:	1 mg
Target:	GADD34 (PPP1R15A)
Protein Characteristics:	AA 1-674
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GADD34 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant PPP1R15A Protein expressed in mammalian cells.
Sequence:	<p>MAPGQAPHQA TPWRDAHPFF LLSPVMGLLS RAW SRLRGLG PLEPW LVEAV KGAALVEAGL EGEARTPLAI PHTPWGRRPE EEAEDSGGPG EDRETLGLKT SSSLPEAWGL LDDDDGMYGE REATSVPRGQ GSQFADGQRA PLSPSLLIRT LQGS DKNPGE EKAEEEGVAE EEGV NKFSYP PSHRECCPAV EEEDDEEAVK KEA HRTSTSA LSPGSKPSTW VSCPGEEENQ ATEDKRTERS KGARKTSVSP RSSGSDPRSW EYRSGEASEE KEEKAHKETG KGEAAPGPQS SAPAQR PQLK SWWCQPSDEE EGEVKALGAA EKDGEAECPP CIPPPSAFLK AWVYWP GEDT EEEEEEEDEE DSDSGSDEEE GEAEASSSTP ATGVFLKSWV YQPGEDTEEE EDESDTGSA EDEREAETSA STPPASAFLK AWVYRPGEDT EEEEEDEDVDS EDKEDDSEAA LGEAESD PHP SHPDQRAHFR GWGYRPGKET EEEEEAAEDWG EA EPCFRVA IYVPG EKPPP PWAPPRLPLR LQRR LKRPET PTHDPDPETP LKARKVRFSE KVTVHFLAVW AGPAQAARQG PWEQLARDRS RFARRITQAQ EELSPCLTPA ARARAWARLR NPPLAPIPAL TQTL PSSSVP SSPVQTTPLS QAVATPSRSS AAAAAALDLS GRRG Sequence without tag. The proposed Purification-Tag is based on</p>

Product Details

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.

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Characteristics: Key Benefits:

- 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).

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.

Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

Target Details

Target: GADD34 (PPP1R15A)

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

Target Details

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

UniProt: [O75807](#)

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

Application Details

Application Notes: We expect the protein to work for functional studies. 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