

PPP1R15A Protein, Human, Recombinant (His)

General Information

Synonyms:	PPP1R15A;Protein phosphatase 1 regulatory subunit 15A;GADD34;Myeloid differentiation primary response protein MyD116 homolog;Growth arrest and DNA damage-inducible protein GADD34
Protein Construction:	40-674 aa
Species:	Human
Expression Host:	E. coli
Accession:	O75807
Molecular Weight:	73.2 kDa (predicted)
AA Sequence:	<p> GPLEPWLVAVKGAALVEAGLEGEARTPLAIPHTPWGRRPEEEAEDSGGPGEDRETLGLKTSSSLPEAWGLLD DDDGMYGEREATSVPRGQGSQFADGQRAPLSPSLLIRTLQGSDKNPGEKAEEEGVAAEEGVNKFYPPSHR ECCPAVEEEDDEEAVKKEAHRSTSTALSPPGSKPSTWVSCPGEEENQATEDKRTERSKGARKTSVSPRSSGSDP RSWEYRSGEASEEKEEKAKHETGKGEAAPGPQSSAPAQRPQLKSWWCQPSDEEEGEVKALGAAEKDGEAE CPPCIPPPSAFLKAWVYWPGEDTEEEDEEDEDSDSGSDEEEGEAEASSSTPATGVFLKSWVYQPGEDTEEE EDESDTGSAAEDEREAETSASTPPASAFKAWVYRPGEDTEEEDEDVDSKEDDSEALGEAEDPHPSH PDQRAHFRGWGYRPGKETEEEEAAEDWGEAEPFVRVAIYVPGEKPPPPWAPPRLPLRLQRRLKRPETPTH PDPETPLKARKVRFSEKVTVHFLAVWAGPAQAARQGPWEQLARDRSRFARRITQAQEELSPCLTPAARARA WARLRNPPLAIPALTQTLPSSSVPSSPQTTPLSQAVATPSRSSAAAAAALDLSGRRG </p>

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Recruits the serine/threonine-protein phosphatase PP1 to dephosphorylate 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. Down-regulates the TGF-beta signaling pathway by promoting dephosphorylation of TGFB1 by PP1. May promote apoptosis by inducing TP53 phosphorylation on 'Ser-15'.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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