

Recombinant Human GADD45A protein (His tag)

Catalog No. PDEH100303

Note: Centrifuge before opening to ensure complete recovery of vial contents.

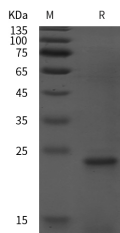
Description

Synonyms	Growth arrest and DNA damage-inducible protein GADD45 alpha;GADD45A;DNA damage-inducible transcript 1 protein;
Species	Human
Expression Host	E.coli
Sequence	Met 1-Arg 165
Accession	P24522
Calculated Molecular Weight	18.0 kDa
Observed molecular weight	23 kDa
Tag	N-His
Bioactivity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	Please contact us for more information.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis

Data



> 95 % as determined by reducing SDS-PAGE.

Background

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GADD45 alpha (Growth arrest and DNA damage-inducible protein 45 alpha) is a 19 kDa member of the GADD45 family of proteins. It is ubiquitously expressed, and induced by DNA damage. Upon induction, GADD45 alpha binds to PCNA, stimulates DNA excision repair, and initiates G2 cell cycle arrest. Human GADD45 alpha is 165 amino acids (aa) in length. It is reported to dimerize with GADD45-beta and -gamma, and to homo-dimerize, -trimerize and -tetramerize via residues 33-61 and 133-165. There is one splice variant that shows a Ser substitution for aa 14-49. GADD45 alpha is 55% aa identical to GADD45-beta and -gamma, and shares 94% aa identity with mouse GADD45 alpha.

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