



Recombinant Protein Technical Manual
Recombinant Human GADD45A/DDIT Protein (His
Tag)
RPES2363

Product Data:

Product SKU: RPES2363

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: P24522

Protein Information:

Molecular Mass: 20.5 kDa

AP Molecular Mass: 18 kDa

Tag: N-His

Bio-activity:

Purity: > 95% as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°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 a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.2.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Growth Arrest and DNA Damage-Inducible Protein GADD45 Alpha; DNA Damage-Inducible Transcript 1 Protein; DDIT; GADD45A; DDIT1; GADD45

Immunogen Information:

Sequence: Met1-Arg165

Background:

Growth Arrest and DNA Damage-Inducible Protein GADD45 α (GADD45A) is a member of the GADD45 family. GADD45A can be induced by UV irradiation, X-rays, growth arrest and alkylating agents, of which can be mediated by some kinases other than PKC. GADD45A can interact with MAPK14, GADD45GIP1, PCNA. In T-cells, GADD45A functions as a regulator of p38 MAPKs by inhibiting p88 phosphorylation and activity. GADD45A may affect PCNA interaction with some cell division protein kinase complexes, stimulating DNA excision repair in vitro and inhibits entry of cells into S phase.