

Recombinant Human TP63, His & GST-tagged

Cat. No. TP63-15H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human TP63 (Met 1-Glu 680), fused with the N-terminal polyhistidine-tagged GST tag at the N-terminus, was expressed in Baculovirus-Insect Cells.

Species Human

Source Insect Cells

ProteinLength 1-680 a.a.

Description

Tumor protein p63 is a protein also known as transformation-related protein 63, TP63, and p63. Tumor protein p63 / p63 is a member of the p53 family of transcription factors whose members P53, p63, and p73 have similar features in their gene structures and functions. An animal model, p63^{-/-} mice has been useful in defining the role p63 plays in the development and maintenance of stratified epithelial tissues. This p63 encoding protein p63 has a dramatic impact on replenishment of cutaneous epithelial stem cells and on ovarian germ cell survival. Although these two fundamental roles of p63 attest to its powerful place in development, its other functions, specifically the apparent capacity of p63, is to supervise the emergence of new cell populations in the breast, prostate, cervix, and upper reproductive tract. P63^{-/-} mice have several developmental effects which include the lack of limbs and other tissues, such as teeth and mammary glands, which develop as a result of interactions between mesenchyme and epithelium. Mutations in this protein are associated with ectodermal dysplasia, and cleft lip / palate syndrome 3, ADULT syndrome (acro-dermato-ungual-lacrimal-tooth), limb-mammary syndrome, et al.

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Predicted N Terminal	Met
Form	Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 7.4, 0.3mM DTT, 20% glycerol Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA.
Molecular Mass	The recombinant human TP63/GST chimera consists of 917 amino acids and has a calculated molecular mass of 105 KDa. It migrates as an approximately 125 KDa band in SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method
Purity	> 90 % as determined by SDS-PAGE
Storage	Store it under sterile conditions at -20? to -80?. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.

GENE INFORMATION

Gene Name	TP63 tumor protein p63 [Homo sapiens (human)]
Official Symbol	TP63
Synonyms	AIS; KET; LMS; NBP; RHS; p40; p51; p63; EEC3; OFC8; p73H; p73L; SHFM4; TP53L; TP73L; p53CP; TP53CP; B(p51A); B(p51B); tumor protein 63; CUSP; transformation-related protein 63; tumor protein p53-competing protein; amplified in squamous cell carcinoma; chronic ulcerative stomatitis protein; keratinocyte transcription factor KET; tumor protein p63 deltaN isoform delta

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Gene ID	8626
mRNA Refseq	NM_003722
Protein Refseq	NP_003713
MIM	603273
UniProt ID	Q9H3D4
Chromosome Location	3q28
Pathway	Apoptosis, organism-specific biosystem; MicroRNAs in cancer, organism-specific biosystem; TP53 network, organism-specific biosystem
Function	DNA binding; WW domain binding; chromatin binding

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