p63/TP73L Protein, Human (sf9, His-GST)

Cat. No.:	HY-P73734
Synonyms:	Tumor protein 63; p63; CUSP; TP63; p73L
Species:	Human
Source:	Sf9 insect cells
Accession:	Q9H3D4 (M1-E680)
Gene ID:	8626
Molecular Weight:	Approximately 125 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM Tris, 500 mM NaCl, pH 7.4, 0.3 mM DTT, 20% Glycerol. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	p63/TP73L Protein functions as a sequence-specific DNA binding transcriptional regulator with diverse activities mediated by its isoforms, each containing distinct transactivation and auto-regulating transactivation inhibiting domains. Isoform 2 specifically activates RIPK4 transcription, while the protein's engagement with TP73/p73 is crucial for initiating p53/TP53-dependent apoptosis in response to genotoxic stress and activated oncogenes. Additionally, p63 contributes to Notch signaling, potentially inducing JAG1 and JAG2, and plays a role in epithelial morphogenesis. The balance between DeltaN-type and TA*-type isoforms likely governs the maintenance of epithelial stem cell compartments and influences the initiation of epithelial stratification from the undifferentiated embryonal ectoderm. Furthermore, the protein is indispensable for limb formation from the apical ectodermal ridge and exerts its regulatory role by activating the transcription of the p21 promoter.

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