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Certificate of Analysis and Data Sheet

Recombinant Human p63

Catalog No.
228-11191

Source
Escherichia Coli.

Synonyms

Tumor protein 63, p63, Transformation-related protein 63, TP63, Tumor protein p73-like, p73L, p51, p40, Keratinocyte transcription factor KET, Chronic ulcerative stomatitis protein, CUSP, KET, P73H, TP73L, AIS, LMS, NBP, RHS, EEC3, OFC8, SHFM4, TP53L, p53CP, TP53CP, B(p51A), B(p51B).

Introduction

The p63 gene, a homologue of the tumor-suppressor p53, is highly expressed in the basal or progenitor layers of many epithelial tissues. The p63 gene belongs to p53 family of transcription factors. P63 shows remarkable structural similarity to p53 and to the related p73 gene. Alternative splicing and using alternative promoters results in multiple transcript variants encoding different proteins. Numerous transcripts encoding different proteins were found but the biological validity and the full-length nature of these variants have not been determined. Unlike p53, the p63 gene encodes multiple isoforms with remarkably divergent abilities to transactivate p53 reporter genes and induce apoptosis. p63 is associated with ectrodactyly-ectodermal dysplasia-cleft syndrome and Hay-Wells syndrome. p63 immunostaining is useful for differentiating prostatic adenocarcinoma (the most common type of prostate cancer) and benign prostatic tissue; normal prostatic glands stain with p63 (since they have basal cells), while the malignant glands in prostatic adenocarcinoma (which lacks these cells) do not.

Description

p63 Human Recombinant (aa 319-410) expressed in E.coli, shows a 36 kDa band on SDS-PAGE. The p63 is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile Filtered clear solution.

Formulation

p63 in 50mM Tris-Acetate, pH7.5, 1mM EDTA and 20% Glycerol.

Stability

Store vial at -20°C to -80°C. When stored at the recommended temperature, this protein is stable for 12 months. **Please prevent freeze-thaw cycles.**

Applications

• ELISA • Inhibition Assays • Western Blotting.

The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.