p53 (wild type) (human), (recombinant)

Recombinant human wild-type p53 that activates DNA damage responses and tumor suppression pathways.

The p53 protein is a transcription factor that plays a crucial role as a tumor suppressor. In normal cells, p53 levels are kept low by degradation mediated by MDM2. In response to stress such as DNA damage and hypoxia, wild-type p53 activates genes that lead to cell cycle arrest and, in the event of severe stress, to apoptosis. The importance of p53 is illustrated by the presence of p53 mutants in 50% of all human cancers. When p53 is inactivated by either mutation or deletion, cells become increasingly vulnerable to malignant transformation. Mutations in p53 lead to a conformational change in protein structure which results in increased stability of the protein. Consequently, p53 is frequently found in higher levels in malignant cells than in normal cells.

Citations: 1 View Online »

Ordering Information

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ADI-908-265-010	10µg

Manuals, SDS & CofA

View Online »

Handling & Storage

Long Term Storage	-80°C
Shipping	Dry Ice

Regulatory Status RUO - Research Use Only

Product Details

Alternative Name	TRP53, Tumor protein p53
Application Notes	Western blot control.
Formulation	Liquid. In 50mM TRIS-Acetate, pH 7.5, containing 1mM EDTA 20% glycerol without BSA and sodium azide.
MW	~82kDa (including GST-tag)
Purity	≥90% (SDS-PAGE)
Purity Detail	Affinity chromatography purified.
Source	Produced in *E. coli*.
UniProt ID	P04637

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