# **Recombinant Human ING4 Protein**

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Catalog No.: RP03219 Recombinant

## **Sequence Information**

**Species Gene ID Swiss Prot** Human 51147 Q9UNL4-1

**Tags** N-His

**Synonyms** 

ING4; my036; p29ING4

## **Product Information**

Source Purification E.coli > 85% by SDS-PAGE.

#### **Endotoxin**

Please contact us for more information.

## Formulation

Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid votex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

### **Contact**

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## **Background**

ING4 is similar to ING1, a tumor suppressor protein that can interact with TP53, inhibit cell growth, and induce apoptosis. ING4 contains a PHD-finger, which is a common motif in proteins involved in chromatin remodeling. ING4 protein can bind TP53 and EP3/p3, a component of the histone acetyltransferase complex, suggesting its involvement in the TP53-dependent regulatory pathway. ING4 is a component of the HBO1 complex which has a histone H4-specific acetyltransferase activity, a reduced activity toward histone H3 and is responsible for the bulk of histone H4 acetylation in vivo. Through chromatin acetylation, it may function in DNA replication. ING4 may also inhibit tumor progression by modulating the transcriptional output of signaling pathways that regulate cell proliferation.

## **Basic Information**

### **Description**

Recombinant Human ING4 Protein is produced by E.coli expression system. The target protein is expressed with sequence (Met1-Lys249) of human ING4 (Accession #Q9UNL4-1) fused with His tag at the N-terminus.

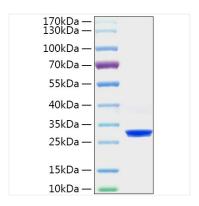
### **Bio-Activity**

## Storage

Store the lyophilized protein at -20°C to -80 °C for twelve months from date of receipt. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.

Avoid repeated freeze/thaw cycles.

## **Validation Data**



Recombinant Human ING4 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 25-30 kDa.