# **Recombinant Human MITF Protein**

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Catalog No.: RP01520 Recombinant

### **Sequence Information**

Species Gene ID Swiss Prot Human 4286 075030

Tags

N-Rabbit Fc

**Synonyms** 

CMM8; COMMAD; MI; WS2; WS2A; bHLHe32;MITF;COMMAD;MI;WS2;WS2A;b HLHe32

### **Product Information**

**Source** Purification HEK293 cells ≥ 95 % as

determined by SDS-

PAGE.

Calculated MW Observed MW

38.97 kDa 45-70 kDa

#### **Endotoxin**

< 0.1 EU/ $\mu$ g of the protein by LAL method.

### **Formulation**

Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.

#### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex 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**

<u>a</u>	400-999-6126
$\bowtie$	cn.market@abclonal.com.cn
<u>~</u>	www.abclonal.com.cn

### **Background**

Microphthalmia-associated transcription factor (MITF) is a member of the basic helix-loop-helix leucine zipper (bHLH-Zip) family and functions as the master regulator of the melanocytic lineage.MITF (Microphthalmia-associated transcription factor) is a lineage-specific transcription factor that plays a critical role in melanocyte homeostasis and whose deregulation has been shown to contribute to melanoma disease. Microphthalmia-associated transcription factor (MITF) is expressed in melanomas and has a critical role in melanocyte development and transformation. Because inhibition of MITF inhibits cell growth in melanoma, MITF is a potential therapeutic target molecule. Microphthalmia-associated transcription factor (MITF) regulates the transcription of its target genes by binding to their promoters. Microphthalmia-associated transcription factor (MITF) is a key regulator of differentiation of melanocytes and retinal pigment epithelial cells, but it also has functions in non-pigment cells.

### **Basic Information**

#### **Description**

Recombinant Human MITF Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (His402-Cys526) of human MITF (Accession #NP 000239.1) fused with a raFc tag at the N-terminus.

### **Bio-Activity**

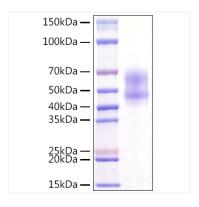
#### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the 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 MITF Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.