Recombinant Human MITF Protein

Catalog No.: RP01520

Sequence Information

Species
Human

Gene ID
4286

Swiss Prot
O75030

Tags
N-Rabbit Fc

Synonyms
CMM8, COMMAD, MI, WS2, WS2A, bHLHe32,MITF,COMMAD,MI,WS2, WS2A,bHLHe32

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
38.97 kDa

Observed MW
45-70 kDa

Endotoxin
< 0.1 EU/μg 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.

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.

Activity

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

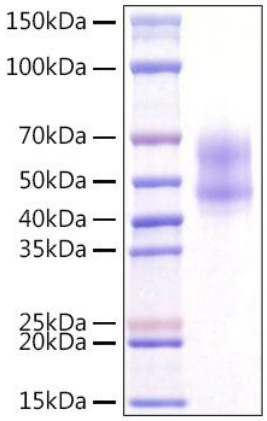
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

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Validation Data



Recombinant Human MITF Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.