

Datasheet for ABIN7563614
MITF Protein (AA 1-526) (His tag)



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Overview

Quantity:	1 mg
Target:	MITF
Protein Characteristics:	AA 1-526
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MITF protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Mitf Protein expressed in mammalian cells.
Sequence:	<p>MQSESGIVAD FEVGEEFHKE PKTYELKSQ PLKSSSSAEH SGASKPPLSS STMTSRILLR</p> <p>QQLMREQMQE QERREQQKL QAAQFMQQRV AVSQTAINV SVPTTLPSAT QVPMVCLKVQ</p> <p>THLENPTKYH IQQAQRHQVK QYLSTTLANK HASQVLSSPC PNQPGDHAMP PVPGSSAPNS</p> <p>PMAMLTLSN CEKEAFYKFE EQSRAESEC GMNTHSRASC MQMDDVIDDI ISLESSYNEE</p> <p>ILGLMDPALQ MANTLPVSGN LIDLYSNQGL PPPGLTISNS CPANLPNIKR ELTACIFPTE</p> <p>SEARALAKER QKKDNHNLIE RRRRFNINDR IKELGTLPK SNDPDMRWK GTILKASVDY</p> <p>IRKLQREQQR AKDLENRQKK LEHANRHLL RVQELMQAR AHGLSLIPST GLCSPDLVNR</p> <p>IHKQEPVLEN CSQELVQHQ DLTCTTTLDL TDGTITFTNN LGTMPESSPA YSIPRKMGSN</p> <p>LEDILMDDAL SPVGVTDP LLSSVSPGASKT SSRSSMSAE ETEHAC</p> <p>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special</p>

request, please contact us.

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

Grade:

custom-made

Target Details

Target:

MITF

Alternative Name:

Mitf ([MITF Products](#))

Background:

Microphthalmia-associated transcription factor,FUNCTION: Transcription factor that acts as a master regulator of melanocyte survival and differentiation as well as melanosome biogenesis (By similarity). Binds to M-boxes (5'-TCATGTG-3') and symmetrical DNA sequences (E-boxes) (5'-CACGTG-3') found in the promoter of pigmentation genes, such as tyrosinase (TYR) (By similarity). Involved in the cellular response to amino acid availability by acting downstream of MTOR: in the presence of nutrients, MITF phosphorylation by MTOR promotes its inactivation (By similarity). Upon starvation or lysosomal stress, inhibition of MTOR induces MITF dephosphorylation, resulting in transcription factor activity (By similarity). Plays an important role in melanocyte development by regulating the expression of tyrosinase (TYR) and tyrosinase-related protein 1 (TYRP1) (By similarity). Plays a critical role in the differentiation of various cell types, such as neural crest-derived melanocytes, mast cells, osteoclasts and optic cup-derived retinal pigment epithelium (By similarity). {ECO:0000250|UniProtKB:O75030}.

Target Details

Molecular Weight:	58.6 kDa
UniProt:	Q08874
Pathways:	Chromatin Binding

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months