

Recombinant Human MC1R Protein, Full Length, N-GST tagged

Cat. No. MC1R-3087HFL Lot. No. (See product label)

SPECIFICATION

Product Overview

Human MC1R full-length ORF (NP_002377.3, 1 a.a. - 317 a.a.) recombinant protein with GST tag at N-terminal was expressed in Wheat Germ (in vitro).

Species

Human

Source

Wheat Germ

ProteinLength

Full Length

Description

This intronless gene encodes the receptor protein for melanocyte-stimulating hormone (MSH). The encoded protein, a seven pass transmembrane G protein coupled receptor, controls melanogenesis. Two types of melanin exist: red pheomelanin and black eumelanin. Gene mutations that lead to a loss in function are associated with increased pheomelanin production, which leads to lighter skin and hair color. Eumelanin is photoprotective but pheomelanin may contribute to UV-induced skin damage by generating free radicals upon UV radiation. Binding of MSH to its receptor activates the receptor and stimulates eumelanin synthesis. This receptor is a major determining factor in sun sensitivity and is a genetic risk factor for melanoma and non-melanoma skin cancer. Over 30 variant alleles have been identified which correlate with skin and hair color, providing evidence that this gene is an important component in determining normal human pigment variation.

Molecular Mass

61.1 kDa

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AA Sequence

MAVQGSQRRLLGSLNSTPTAIPQLGLAANQTGARCLEVSISDGLFSLGLVSLVENA
LVVATIAKNRNLHSPMYCFICCLALSDLLVSGSNVLETAVILLLEAGALVARAAVLQQL
DNVIDVITCSSMLSSLCFLGAIADVRYISIFYALRYHSTVTLPRARRAVAAIWWASVVFS
TLFIAYYDHSVAVLLCLVVFFLAMLVLMVLYVHMLARACQHAQGIARLHKRQRPVHQ
GFGLKGAVTLTILGIFFLCWGPFFLHLLIVLCPEHPTCGCIFKNFNLFLALIICNAIDP
LIYAFHSQELRRTLKEVLTCSW

Applications

Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
Protein Array

Quality Control Test 12.5% SDS-PAGE Stained with Coomassie Blue.

Notes Best use within three months from the date of receipt of this protein.

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name MC1R melanocortin 1 receptor (alpha melanocyte stimulating hormone receptor) [Homo sapiens (human)]

Official Symbol MC1R

Synonyms MC1R; melanocortin 1 receptor (alpha melanocyte stimulating hormone receptor); melanocyte-stimulating hormone receptor; MSH R; MC1-R; melanotropin receptor; CMM5; MSH-R; SHEP2; MGC14337

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Gene ID 4157

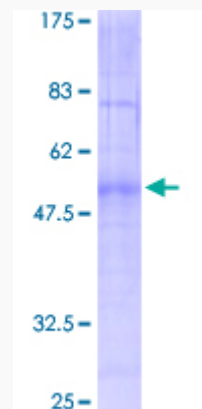
mRNA Refseq NM_002386

Protein Refseq NP_002377

MIM 155555

UniProt ID Q01726

SDS-PAGE



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