

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	MAVQGSQRRLLGSLNSTPTAIPQLGLAANQTGARCLEVSISDGLFLSLGLVSLVENA LVVATIAKNRNLHSPMYCFICCLALSDLLVSGSNVLETAVILLLEAGALVARAAVLQQL DNVIDVITCSSMLSSLCFLGAIADVDRYISIFYALRYHSTVTLPRARRAVAAIWVASVVS TLFIAYYDHSVAVLLCLVFFLAMLVMAVLYVHMLARACQHAQGIARLHKRQRPVHQ GFGCLKGAVTLTILLGIFFLCWGPFFLHLTLIVLCPEHPTCGCIFKNFNLFLALIICNAIDP 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	