

Recombinant Human MTNR1A Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MTNR1A-556H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MTNR1A MS Standard C13 and N15-labeled recombinant protein (NP_005949) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes one of two high affinity forms of a receptor for melatonin, the primary hormone secreted by the pineal gland. This receptor is a G-protein coupled, 7-transmembrane receptor that is responsible for melatonin effects on mammalian circadian rhythm and reproductive alterations affected by day length. The receptor is an integral membrane protein that is readily detectable and localized to two specific regions of the brain. The hypothalamic suprachiasmatic nucleus appears to be involved in circadian rhythm while the hypophyseal pars tuberalis may be responsible for the reproductive effects of melatonin.
Molecular Mass	39.4 kDa
AA Sequence	MQGNGSALPNASQPVLRGDGRPSWLASALACVLIFTIVVDILGNLLVILSVYRNKKL RNAGNIFVVSLAVADLVVAIYPYPLVLSIFNNGWNLGYLHCQVSGFLMGLSVIGSIF NITGIAINRYCYICHSLKYDKLYSSKNSLCYVLLIWLTLAAVLPNLRAGTLQYDPRIYS CTFAQSVSSAYTIAVVVFHFLVPMIIVIFCYLRIWILVLQVRQVRVKPDRKPKLKPQDFR NFVTMFVVVFLFAICWAPLNFIFGLAVASDPASMVPRIPWLFVASYYMAYFNSCLNAII

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YGLLNQNFRKEYRRIIVSLCTARVFFVDSSNDVADRVKWKPSPLMTNNNVVKVDSVT
RTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name MTNR1A melatonin receptor 1A [Homo sapiens (human)]

Official Symbol MTNR1A

Synonyms MTNR1A; melatonin receptor 1A; melatonin receptor type 1A; MEL 1A R; mel1a receptor; MT1; MEL-1A-R;

Gene ID 4543

mRNA Refseq NM_005958

Protein Refseq NP_005949

MIM 600665

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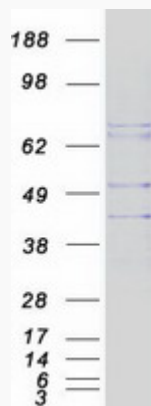
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UniProt ID

P48039

SDS-PAGE

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