

# 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 hypophysial pars tuberalis may be responsible for the reproductive effects of melatonin.

### Molecular Mass

39.4 kDa

### AA Sequence

MQGNGSALPNASQPVLRGD GARPSWLASALACVLIFTIVVDILGNLLVILSVYRNKKL  
 RNAGNIFVVS LAVADLVVAIYPYPLVMSIFNNGWNLGYLHCQVSGFLMGLSVIGSIF  
 NITGIAINRYCYICHSLKYDKLYSSKNSLCYVLLIWLLTAAVLPNLRAGTLQYDPRIYS  
 CTFAQSVSSAYTIAVVVFHFLVPMIIVIFCYLRIWILVLQVRQRVKPDRKPKLKPQDFR  
 NFVTMFVVFVLF AICWAPLNF IGLAVASDPASMVPR IPEWLFVASYMAYFNSCLNAII

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YGLLNQNFRRKEYRRIIVSLCTARVFFVDSSNDVADRVKWKPSPLMTNNNVVKVDSVT  
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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UniProt ID

P48039

SDS-PAGE



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