

Product datasheet for **TP310385M**

Melatonin Receptor 1A (MTNR1A) (NM_005958) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human melatonin receptor 1A (MTNR1A), 100 µg

Species: Human

Expression Host: HEK293T

**Expression cDNA Clone
or AA Sequence:** >RC210385 protein sequence
Red=Cloning site **Green**=Tags(s)

MQGNGSALPNASQPVLRGD GARPSWLASALACVLIFTIVVDILGNLLVILSVYRNKCLR NAGNIFVWSLA
VADLVVAIYPYPLV LMSIFNNGWN LGYLHCQVSGFLMGLSVIGSIFNITGIAINRYCYICHSLKYDKLYS
SKNSLCYVLLIWLLTAAVLPNLRAGTLQYDPRIYSCTFAQSVSSAYTIAVVVFHFLVPMIIVFCYLRI
WILVLQVRQVRKPKDRKPKLPQDFRN FVTMFVVFVLF AICWAPLNFIGLAVASDPASMVPRIP EWL FVAS
YYMAYFNSCLNAIYGLLNQNF RKEYRRIIVSLCTARVFFVDSSNDVADR VKWKPSPLMTN NNVKVD SV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 39.2 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

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

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_005949](#)

Locus ID: 4543



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UniProt ID: [P48039](#)

RefSeq Size: 1105

Cytogenetics: 4q35.2

RefSeq ORF: 1050

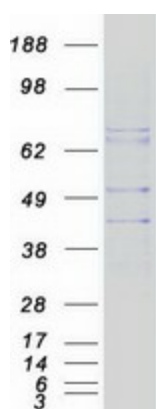
Synonyms: MEL-1A-R; MT1

Summary: 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. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

Product images:



Coomassie blue staining of purified MTNR1A protein (Cat# [TP310385]). The protein was produced from HEK293T cells transfected with MTNR1A cDNA clone (Cat# [RC210385]) using MegaTran 2.0 (Cat# [TT210002]).