Recombinant Full Length Human MTNR1A Protein, C-Flag-tagged

Cat. No. MTNR1A-1482HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human MTNR1A Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	39.2 kDa
AA Sequence	MQGNGSALPNASQPVLRGDGARPSWLASALACVLIFTIVVDILGNLLVILSVYRNKKL RNAGNIFVVSLA VADLVVAIYPYPLVLMSIFNNGWNLGYLHCQVSGFLMGLSVIGSIF NITGIAINRYCYICHSLKYDKLYS SKNSLCYVLLIWLLTLAAVLPNLRAGTLQYDPRIYS CTFAQSVSSAYTIAVVVFHFLVPMIIVIFCYLRI WILVLQVRQRVKPDRKPKLKPQDFR

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

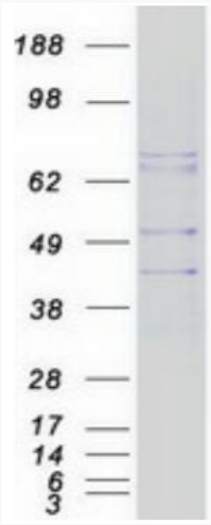
	NFVTMFVVFVLFAICWAPLNFIGLAVASDPASMVPRIPEWLFVAS YYMAYFNSCLNAI IYGLLNQNFRKEYRRIIVSLCTARVFFVDSSNDVADRVKWKPSPLMTNNNVVKVDSV TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, GPCR, Transmembrane
Protein Pathways	Neuroactive ligand-receptor interaction
Full Length	Full L.

GENE INFORMATION

Gene Name	MTNR1A melatonin receptor 1A [Homo sapiens (human)]
Official Symbol	MTNR1A
Synonyms	MT1; MEL-1A-R
Gene ID	4543

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mRNA Refseq	NM_005958.4
Protein Refseq	NP_005949.1
MIM	600665
UniProt ID	P48039



Coomassie blue staining of purified MTNR1A protein.

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