

## Product Data Sheet

### RECOMBINANT HUMAN MELATONIN RECEPTOR TYPE 1A

#### Information

##### PRODUCT DETAILS

Compound Name	Melatonin receptor type 1A
Catalog Numbers	41-G102A-10UG 41-G102A-50UG 41-G102A-BULK
Class	GPCR Class A
Sequence	Full-length, wildtype sequence, with a N-terminus <b>Strep tag II</b> , <b>10xHis-tag</b> , and <b>TEV protease cleavage site</b> : MASA <b>WSHPQFEK</b> GGGSGGGSGGSA <b>WSHPQFEK</b> GA <b>HHHHHHHHHH</b> ENL <b>FQ</b> QGNGSALPNASQPVLRGD GARPSWLASALACVLIFTIVVDILGNLLVILSVYRNKKLRNAGNIFVVS LAVADLVVAIYPYPLVLM SIFNNGWNLGYLHCQVSGFLMGLSVIGSIFNITGIAINRYCYICHSLKYDKLYSSKNSLCYVLLIWLLTLA AVLPNLRAGTLQYDPRIYSCTFAQSVSSAYTIAVVVFHFLVPMIIVFCYLRIW ILVLQVRQVRVKPDRKPKLKPQDFRNFVTMFVVFVLFAICWAPLNFIGLAVAS DPASMVPRIPWLFVASYYMAYFNSCLNAIYGLLNQNFKEYRRIIVSLCTA RVFFVDSSNDVADRVKWKPSPLMTNNNVVKVDSV
Affinity Tag	StrepX2/His (both N-terminal)
Origin	Human (Homo sapiens)
Theor. MW	44.8 kDa
Accession #	P48039 (UniProt)
Purification	Solubilized using CALIXAR patented technology and purified using Metal Affinity Chromatography in presence of Sarkosyl/CHS
Purity	>90%
Activity	Confirmed by radiobinding assay and activation of Gi
Sample Buffer	25mM Na <sub>2</sub> HPO <sub>4</sub> pH 8.0, 150mM NaCl, 0.86%/0.18% Sarkosyl/CHS
Available Quantity	From 10 µg up to mg scale
Shipment Temperature	Dry ice
Storage Conditions	Store at -80°C

## Quality Controls

### Purity

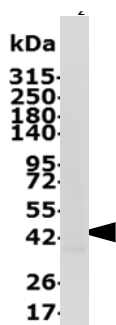


Figure 1: SDS-PAGE

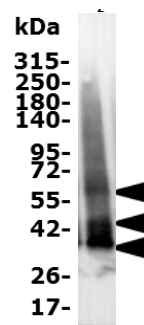


Figure 2: Western Blotting

IMAC elution fraction of MTNR1A was migrated on a 4-15% Tris-glycine SDS-PAGE and the total proteins were Stain-Free detected. The black arrow indicates full-length MTNR1A.

IMAC elution fraction of MTNR1A was migrated on a 4-15% Tris-glycine SDS-PAGE, transferred to pvdf membrane and immunodetected with a rabbit polyclonal anti-MTNR1A (Fox 25.7, from Ralf Jockers laboratory). Black arrows indicate the target.

## References

- [1] Daulat AM. Et al. Purification and identification of G protein-coupled receptor protein complexes under native conditions. *Mol Cell Proteomics*. 2007 May;6(5):835-44. Epub 2007 Jan 9.
- [2] Igonet et al. *In preparation*.

## Additional Information

### Restricted use: Limited Use Label License

The purchase of this product conveys to the purchaser the limited, non-transferable right to use the purchased amount of the product and progeny, to perform internal research and development for the sole benefit of the purchaser.

### Safety

Not known as a hazardous substance or mixture. General industrial hygiene practices must be followed as the use of adapted personal protective equipment for skin and body.

### Technical support

For additional product and technical information email our Technical Support team at [contact@calixar.com](mailto:contact@calixar.com).

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