

## Recombinant Full Length Rat Oprm1 Protein, Flag tagged

**Cat. No.** RFL5823RF    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| <b>Product Overview</b> | Recombinant Full Length Rat Oprm1 Protein (1-398 aa) with Flag tag was expressed in HEK293.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Species</b>          | Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>ProteinLength</b>    | 1-398 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>      | <p>Enables several functions, including G-protein beta-subunit binding activity; morphine receptor activity; and voltage-gated calcium channel activity. Involved in several processes, including G protein-coupled receptor signaling pathway; estrous cycle; and regulation of signal transduction. Located in several cellular components, including dendrite; focal adhesion; and perikaryon. Is active in postsynaptic membrane; presynaptic membrane; and spine apparatus. Used to study obesity. Biomarker of brain ischemia; extrahepatic cholestasis; human immunodeficiency virus infectious disease; obesity; and sciatic neuropathy. Human ortholog(s) of this gene implicated in several diseases, including alcohol dependence; alcohol use disorder; drug dependence (multiple); drug psychosis; and withdrawal disorder (multiple). Orthologous to human OPRM1 (opioid receptor mu 1).</p> |
| <b>Molecular Mass</b>   | 45.9 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Purity</b>           | > 85% by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

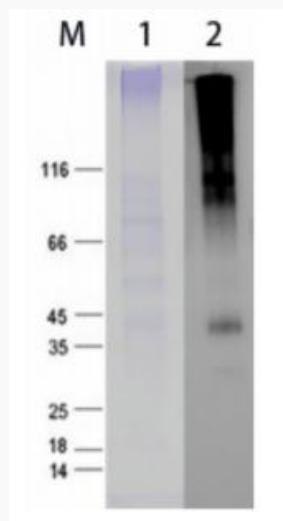
|                         |                                                                                                                                                                                                                                   |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Notes</b>            | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.                                                                              |
| <b>Storage</b>          | Store at -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. Stable for at least 1 year from receipt of products under proper storage and handling conditions |
| <b>Concentration</b>    | 0.17 mg/mL by Bradford                                                                                                                                                                                                            |
| <b>Storage Buffer</b>   | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol                                                                                                                                                                              |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                   |
| <b>Gene Name</b>        | Oprm1 opioid receptor, mu 1 [ Rattus norvegicus (Norway rat) ]                                                                                                                                                                    |
| <b>Official Symbol</b>  | Oprm1                                                                                                                                                                                                                             |
| <b>Synonyms</b>         | Oprm1; opioid receptor, mu 1; MORA; Oprm; Oprm1; mu-type opioid receptor; M-OR-1; MOR-1; MUOR1; opioid receptor B                                                                                                                 |
| <b>Gene ID</b>          | 25601                                                                                                                                                                                                                             |
| <b>mRNA Refseq</b>      | NM_013071                                                                                                                                                                                                                         |
| <b>Protein Refseq</b>   | NP_037203                                                                                                                                                                                                                         |
| <b>UniProt ID</b>       | P33535                                                                                                                                                                                                                            |

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WB



Lane 1. Purified recombinant Rat Oprm1 protein was analyzed by Tricine-SDS-PAGE 12% gel, run with Tris-Glycine running buffer Lane 2. Oprm1 protein analyzed by Western blot using anti-DDK Mab

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