

PRODUCT INFORMATION

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| Tag                          | <b>Warning:</b> Undefined variable \$hasAttributeValueDescription in C:\wwwroot\mirror.dimabio.com\wp-content\plugins\woocommerce-print-products\public\class-woocommerce-print-products-public.php on line 2806<br>C-Flag Tag                                                                                                                                                                                                                                                                                 |
| Target                       | MCLN2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Synonyms                     | TRP-ML2, TRPML2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Description                  | Human MCLN2 full length protein-synthetic nanodisc                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Delivery                     | 6~8weeks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Uniprot ID                   | Q8IZK6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Expression Host              | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Protein Families             | Ion Channels: Transient receptor potential                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Protein Pathways             | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Molecular Weight             | The human full length MCLN2 protein has a MW of 65.9kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Formulation & Reconstitution | Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.                                                                                                                                                                                                                                                               |
| Storage & Shipping           | Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.                                                                                                                                                                                                                                                            |
| Background                   | Mucolipins constitute a family of cation channel proteins with homology to the transient receptor potential superfamily. In mammals, the mucolipin family includes 3 members, MCOLN1 (MIM 605248), MCOLN2, and MCOLN3 (MIM 607400), that exhibit a common 6-membrane-spanning topology. Homologs of mammalian mucolipins exist in Drosophila and C. elegans. Mutations in the human MCOLN1 gene cause mucopolipidosis IV (MIM 262650) (Karacsonyi et al., 2007 [PubMed 17662026]).[supplied by OMIM, Sep 2009] |
| Usage                        | Research use only                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Conjugate                    | Unconjugated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

