



# Recombinant Rat Molybdopterin synthase catalytic subunit (Mocs2)

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| <b>Product Code</b>      | CSB-MP731821RA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Abbreviation</b>      | Mocs2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Storage</b>           | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.<br>Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.                                                                                                                                                                                                                                                                                                                                                                |
| <b>Uniprot No.</b>       | Q6AY59                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Product Type</b>      | Recombinant Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Immunogen Species</b> | Rattus norvegicus (Rat)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Purity</b>            | ≥85% (SDS-PAGE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Sequence</b>          | MSSLEINNSC FSLETKLPSS HQSVEDSASE PSGYEAKDPP QDTLKDVDDV<br>LEKPKDIIQF TAKKLSVGEV SQLVVSPLCG AVSLFVGTTT NNFEGKKVIS<br>LEYEAYLPMA ENEIRKICND IRQKWPVRHI AVFHRLGLVP VSEASTVIIV<br>SSAHRAASLE AVSYAIDSLK AKVPIWKKEI YEESTSSWKR NKECFWAADD                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>            | Mammalian cell                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Target Names</b>      | Mocs2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Protein Names</b>     | Recommended name: Molybdopterin synthase catalytic subunit EC= 2.8.1.12<br>Alternative name(s): Molybdenum cofactor synthesis protein 2 large subunit<br>Molybdenum cofactor synthesis protein 2B Short name= MOCS2B                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Expression Region</b> | 1-200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Notes</b>             | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Tag Info</b>          | Tag type will be determined during the manufacturing process.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Protein Length</b>    | full length protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Target Details</b>    | Eukaryotic molybdoenzymes use a unique molybdenum cofactor (MoCo) consisting of a pterin, termed molybdopterin, and the catalytically active metal molybdenum. MoCo is synthesized from precursor Z by the heterodimeric enzyme molybdopterin synthase. The large and small subunits of molybdopterin synthase are both encoded from this gene by overlapping open reading frames. The proteins were initially thought to be encoded from a bicistronic transcript. They are now thought to be encoded from monocistronic transcripts. Alternatively spliced transcripts have been found for this locus that encode the large and small subunits. |
| <b>Reconstitution</b>    | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final                                                                                                                                                                                                                                                                                                              |



concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

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