

## Active Recombinant Human KMO Protein, N-6×His tagged

**Cat. No.** KMO-07H    **Lot. No.** (See product label)

### SPECIFICATION

|                                     |                                                                                                                                                                                                                                                          |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>             | Recombinant Human KMO Protein (Asp2-Leu441) with an N-terminal Met and 6×His tag was expressed in Spodoptera frugiperda, Sf 21 (Insect cells).                                                                                                           |
| <b>Species</b>                      | Human                                                                                                                                                                                                                                                    |
| <b>Source</b>                       | Insect Cells                                                                                                                                                                                                                                             |
| <b>ProteinLength</b>                | 2-441 a.a.                                                                                                                                                                                                                                               |
| <b>Description</b>                  | This gene encodes a mitochondrion outer membrane protein that catalyzes the hydroxylation of L-tryptophan metabolite, L-kynurenine, to form L-3-hydroxykynurenine. Studies in yeast identified this gene as a therapeutic target for Huntington disease. |
| <b>Bio-activity</b>                 | Measured by the consumption of NADPH by hydroxylation of L-kynurenine to 3-hydroxy-kynurenine. The specific activity is > 290 pmol/min/μg, as measured under the described conditions.                                                                   |
| <b>Molecular Mass</b>               | Predicted Molecular Mass: 51 kDa<br>SDS-PAGE: 40-45 kDa, reducing conditions                                                                                                                                                                             |
| <b>N-terminal Sequence Analysis</b> | Inconclusive results, intact N-terminus verified by anti-poly-His Western                                                                                                                                                                                |
| <b>Endotoxin</b>                    | < 1.0 EU/μg of the protein by the LAL method.                                                                                                                                                                                                            |

 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>Purity</b>         | > 80%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain at 5 µg per lane.                                                                                      |
| <b>Storage</b>        | Use a manual defrost freezer and avoid repeated freeze-thaw cycles.<br>6 months from date of receipt, -70 centigrade as supplied.<br>3 months, -70 centigrade under sterile conditions after opening. |
| <b>Storage Buffer</b> | Supplied as a 0.2 µm filtered solution in Tris, NaCl and Brij-35.                                                                                                                                     |
| <b>Shipping</b>       | The product is shipped with dry ice or equivalent.                                                                                                                                                    |

## GENE INFORMATION

|                        |                                                                                                                              |
|------------------------|------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | KMO kynurenine 3-monooxygenase (kynurenine 3-hydroxylase) [ Homo sapiens (human) ]                                           |
| <b>Official Symbol</b> | KMO                                                                                                                          |
| <b>Synonyms</b>        | KMO; kynurenine 3-monooxygenase (kynurenine 3-hydroxylase); kynurenine 3-monooxygenase; kynurenine 3-hydroxylase; dJ317G22.1 |
| <b>Gene ID</b>         | 8564                                                                                                                         |
| <b>mRNA Refseq</b>     | NM_003679                                                                                                                    |
| <b>Protein Refseq</b>  | NP_003670                                                                                                                    |
| <b>MIM</b>             | 603538                                                                                                                       |
| <b>UniProt ID</b>      | O15229                                                                                                                       |

 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