

## Product datasheet for **TP508103**

### **Paox (NM\_153783) Mouse Recombinant Protein**

#### **Product data:**

|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Type:                         | Recombinant Proteins                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Description:                          | Purified recombinant protein of Mouse polyamine oxidase (exo-N4-amino) (Paox), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Species:                              | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Expression Host:                      | HEK293T                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Expression cDNA Clone or AA Sequence: | >MR208103 protein sequence<br><b>Red</b> =Cloning site <b>Green</b> =Tags(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                       | <p>MAFPGPRVLVVGSGIAGLGAAQKLCSHRAAPHLRVLEATASAGGRIRSERCFFGGVELGAHWIHGPSQDN<br/> PVFQLAAEFGLLGEKELSEENQLVDTGGHVALPSMIWSSSGTSVSLELMTEMARLFYGLIERTREFLNES<br/> ETPMASVGFLKKEISQQVASWTEDEDEDTRKRKLAILNTFFNIECCVSGTHSMDLVALAPFGEYTVLPGL<br/> DCILAGGYQGLTDRIASLPKDTVAFDKPVKTIHWNGSFQEAAPGETFPVLVECEDGARLPAHHVIVTV<br/> PLGFLKEHQDTFFEPPLPAKKAERIAIKKLGFGTNNKIFLEFEFPFWEPDCQFIQVWEDTSPLQDTALSQ<br/> DTWFKKLIGFLVQPSFESSHVLGCGFIAGLESEFMETLSDEEVLLSLTQVLRRTGNPQLPAKSVRRSQW<br/> HSAPYTRGSYSYVAVGSTGDDLMAQPLPEDGTGTQLQVLFAGEATHRTFYSTTHGALLSGWREADRLV<br/> SLWDSQVEQSRPRL</p> <p><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b></p> |
| Tag:                                  | C-MYC/DDK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Predicted MW:                         | 55.4 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Concentration:                        | >0.05 µg/µL as determined by microplate BCA method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Purity:                               | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Buffer:                               | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Note:                                 | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Storage:                              | Store at -80°C after receiving vials.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Stability:                            | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| RefSeq:                               | <u><a href="#">NP_722478</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |



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**Locus ID:** 212503

**UniProt ID:** [Q8C0L6](#)

**RefSeq Size:** 1737

**Cytogenetics:** 7 F4

**RefSeq ORF:** 1512

**Synonyms:** 2410012F02Rik; AI118225; Pao

**Summary:** Flavoenzyme which catalyzes the oxidation of N(1)-acetylspermine to spermidine and is thus involved in the polyamine back-conversion (PubMed:12660232, PubMed:28029774). Can also oxidize N(1)-acetylspermidine to putrescine. Substrate specificity: N(1)-acetylspermine = N(1)-acetylspermidine > N(1),N(12)-diacetylspermine >> spermine. Does not oxidize spermidine. Plays an important role in the regulation of polyamine intracellular concentration and has the potential to act as a determinant of cellular sensitivity to the antitumor polyamine analogs (PubMed:12660232).[UniProtKB/Swiss-Prot Function]