

## Pirin Human Recombinant

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|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Item Number</b>                       | rAP-3777                                                                                                                                                                                                                                                                                                                                              |
| <b>Synonyms</b>                          | Pirin, Probable quercetin 2,3-dioxygenase PIR, Probable quercetinase, PIR.                                                                                                                                                                                                                                                                            |
| <b>Description</b>                       | PIR Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 310 amino acids (1-290 a.a.) and having a molecular mass of 34.3kDa. PIR is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.                                                                  |
| <b>Uniprot Accession Number</b>          | O00625                                                                                                                                                                                                                                                                                                                                                |
| <b>Amino Acid Sequence</b>               | MGSSHHHHHH SSGLVPRGSH MGSSKKVTL SLSREQSEGV GARVRRSISR PELKNLDPFL LFDEFKGRP GGFPDHPHRG FETVSYLLEG GSM AHEDFCG HTGKMNPGDL QWMTAGRGIL HAEMPCSEEP AHGLQLWVNL RSSEKMVEPQ YQELKSEEIP KPSKDGVTVA VISGEALGIK SKVYTRTPTL YLDFKLDPGA KHSQPIPKGW TSFIYTISGD VYIGPDDAQQ KIEPHHTAVL GEGDSVQVEN KDPKRSHFVL IAGEPLREP V IQHGPFVMNT NEEISQAILD FRNAKNGFER AKTWKSKIGN. |
| <b>Source</b>                            | Escherichia Coli.                                                                                                                                                                                                                                                                                                                                     |
| <b>Physical Appearance and Stability</b> | Sterile Filtered clear solution. Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.                                                                                 |
| <b>Formulation and Purity</b>            | PIR protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 20% glycerol, 0.1M NaCl and 1mM DTT. Greater than 95.0% as determined by SDS-PAGE.                                                                                                                                                                                             |
| <b>Application</b>                       |                                                                                                                                                                                                                                                                                                                                                       |
| <b>Solubility</b>                        |                                                                                                                                                                                                                                                                                                                                                       |
| <b>Biological Activity</b>               |                                                                                                                                                                                                                                                                                                                                                       |
| <b>Shipping Format and Condition</b>     | Lyophilized powder at room temperature.                                                                                                                                                                                                                                                                                                               |

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**