

## Recombinant Human TYR Protein (19-377 aa), His-tagged

**Cat. No.** TYR-1551H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human TYR Protein (19-377 aa) is produced by Yeast expression system. This protein is fused with a 6xHis tag at the N-terminal. Research Area: Metabolism. Protein Description: Partial.                                                                                                                                                                        |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | Yeast                                                                                                                                                                                                                                                                                                                                                                       |
| <b>ProteinLength</b>    | 19-377 aa                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>      | This is a copper-containing oxidase that functions in the formation of pigments such as melanins and other polyphenolic compounds. Catalyzes the rate-limiting conversions of tyrosine to DOPA, DOPA to DOPA-quinone and possibly 5,6-dihydroxyindole to indole-5,6 quinone.                                                                                                |
| <b>Form</b>             | Tris-based buffer, 50% glycerol                                                                                                                                                                                                                                                                                                                                             |
| <b>Molecular Mass</b>   | 42.7 kDa                                                                                                                                                                                                                                                                                                                                                                    |
| <b>AA Sequence</b>      | HFPRACVSSKNLMEKECCPPWSGDRSPCGQLSGRGSCQNILLSNAPLGPQFPFTG<br>VDDRESWPSVFYNRTCQCSGNFMGFNCGNCKFGFWGPNCTERRLLVRRNIFDL<br>SAPEKDKFFAYLTLAKHTISSDYVIPIGTYGQMKNGSTPMFNDINIYDLFVWMHYYV<br>SMDALLGGSEIWRDIDFAHEAPAFPLPWHRLFLLRWEQEIQKLTGDENFTIPYWD<br>WRDAEKCDICTDEYMGGQHPTNPNULLSPASFFSSWQIVCSRLEEYN<br>SHQSLCNGTPEGPLRRNPGNHDKSRTPLRPSSADVEFCLSLTQYESGSMDKAANFS<br>FRNTLEGFASPLTGIA |

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|                      |                                                                                                                                                                                                                                                                                                                     |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      | DASQSSMHNALHIYMNGTMSQV                                                                                                                                                                                                                                                                                              |
| <b>Purity</b>        | > 90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                    |
| <b>Notes</b>         | Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.                                                                                                                                                                                                        |
| <b>Storage</b>       | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade. |
| <b>Concentration</b> | A hardcopy of COA with reconstitution instruction is sent along with the products.                                                                                                                                                                                                                                  |

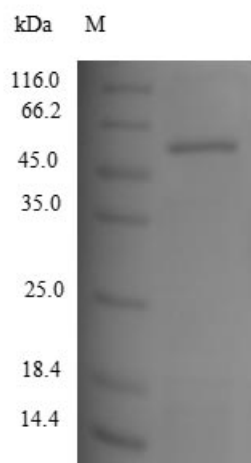
## GENE INFORMATION

|                        |                                                               |
|------------------------|---------------------------------------------------------------|
| <b>Gene Name</b>       | TYR tyrosinase (oculocutaneous albinism IA) [ Homo sapiens ]  |
| <b>Official Symbol</b> | TYR                                                           |
| <b>Synonyms</b>        | TYR; tyrosinase; OCAIA; LB24-AB; SK29-AB; CMM8; OCA1A; SHEP3; |
| <b>Gene ID</b>         | 7299                                                          |
| <b>mRNA Refseq</b>     | NM_000372                                                     |
| <b>Protein Refseq</b>  | NP_000363                                                     |
| <b>MIM</b>             | 606933                                                        |
| <b>UniProt ID</b>      | P14679                                                        |

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(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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