

Recombinant Human Tyrosinase, GST-tagged

Cat. No. TYR-220H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TYR (1 a.a. - 377 a.a.) fused with GST-tag at N-terminal, was expressed in wheat germ.
Species	Human
Source	Wheat Germ
Description	The enzyme encoded by this gene catalyzes the first 2 steps, and at least 1 subsequent step, in the conversion of tyrosine to melanin. The enzyme has both tyrosine hydroxylase and dopa oxidase catalytic activities, and requires copper for function. Mutations in this gene result in oculocutaneous albinism, and nonpathologic polymorphisms result in skin pigmentation variation. The human genome contains a pseudogene similar to the 3' half of this gene.
Molecular Mass	67.21 kDa
Sequence	MLLAVLYCLLWSFQTSAGHFPRACVSSKNLMEKECCPPWSGDRSPCGQLSGRGS CQNILLSNAPLGPQFPFTGVDDRESWPSVFYNRTCQCSGNFMGMFNCGNCKFGFW GPNECTERRLLVRRNIFDLSAPEKDKFFAYLTLAKHTISSDYVIPIGTYGQMKNGSTPM FNDINIYDLFVWMHYVVSMDALLGGSEIWRDIDFAHEAPAFPLPWHRLFLLRWEQEIQ KLTGDENFTIPYWDWRDAEKCDICTDEYMGGQHPTNPNULLSPASFFSSWQIVCSRL EEYNHQPLCNGTPEGPLRRNPGNHDKSRTPLRPSSADVEFCLSLTQYESGSMKD AANFSFRNTLEEMGFLHVGWAGLKLLTSRDPPPWPPKMLGLQA
Storagebuffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH 8.0 in the elution buffer.

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Applications	ELISA; WB
Storage	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
OfficialSymbol	TYR
GENE INFORMATION	
Gene Name	TYR tyrosinase [Homo sapiens (human)]
Synonyms	TYR; tyrosinase; CMM8; OCA1A; OCAIA; SHEP3; LB24-AB; SK29-AB; monophenol monooxygenase; oculocutaneous albinism IA; tumor rejection antigen AB
Gene ID	7299
mRNA Refseq	NM_000372
Protein Refseq	NP_000363
MIM	606933
UniProt ID	P14679
Chromosome Location	11q14-q21
Pathway	(S)-reticuline biosynthesis II; L-dopachrome biosynthesis; Melanogenesis; Tyrosine metabolism
Function	copper ion binding; metal ion binding; monooxygenase activity; protein binding; protein heterodimerization activity

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