

Product Data Sheet

TYR Protein, Human (P.pastoris, His)

Cat. No.:	HY-P71792
Synonyms:	ATN; CMM8; LB24 AB; LB24-AB; OCA1; OCA1A; OCAIA; Oculocutaneous albinism IA; SHEP3; SK29 AB; SK29-AB; Tumor rejection antigen AB; TYR; Tyrosinase
Species:	Human
Source:	P. pastoris
Accession:	P14679 (19H-377V)
Gene ID:	7299
Molecular Weight:	Approximately 48 kDa

Inhibitors • Screening Libraries • Proteins

PROPERTIES

AA Sequence	H F P R A C V S S K L L S N A P L G P Q N C G N C K F G F W T L A K H T I S S D M H Y Y V S M D A L E Q E I Q K L T G D	N L M E K E C C P P F P F T G V D D R E G P N C T E R R L L Y V I P I G T Y G Q L G G S E I W R D I E N F T I P Y W D W	W S G D R S P C G Q S W P S V F Y N R T V R R N I F D L S A M K N G S T P M F N D F A H E A P A F L R D A E K C D I C T	L S G R G S C Q N I C Q C S G N F M G F P E K D K F F A Y L D I N I Y D L F V W P W H R L F L L R W D E Y M G G Q H P T	
	N P N L L S P A S F R N P G N H D K S R S F R N T L E G F A	F S S W Q I V C S R T P R L P S S A D V S P L T G I A D A S	L E E Y N S H Q S L E F C L S L T Q Y E Q S S M H N A L H I	C	
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.				
Appearance	Lyophilized powder.				
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0.				
Endotoxin Level	<1 EU/µg, determined by LAL method.				
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 $\mu\text{g}/\text{mL}$ in ddH2O.				
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.				
Shipping	Room temperature in continental US; may vary elsewhere.				

DESCRIPTION	
Background	TYR protein is a copper-containing oxidase crucial for pigment formation, playing a pivotal role in the synthesis of melanins and various polyphenolic compounds. Acting as the initiator of the melanin production pathway from tyrosine, TYR

catalyzes the initial and rate-limiting step, hydroxylating tyrosine to DOPA (3,4-dihydroxyphenylalanine). Furthermore, it facilitates the oxidation of DOPA to DOPA-quinone and potentially mediates the oxidation of DHI (5,6-dihydroxyindole) to indole-5,6 quinone, contributing to the complex cascade of reactions involved in melanin biosynthesis.

Caution: Product has not been fully validated for medical applications. For research use only.

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA