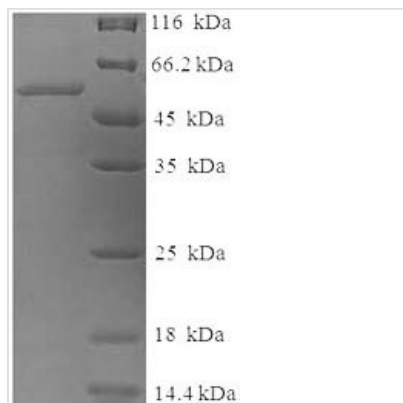




Recombinant Human Tyrosinase (TYR), partial

Product Code	CSB-EP025394HU
Relevance	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.
Abbreviation	Recombinant Human TYR protein, partial
Storage	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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P14679
Alias	LB24-ABMonophenol monooxygenase;SK29-ABTumor rejection antigen AB
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	HFPRACVSSKNLMEKECCPPWSGDRSPCGQLSGRGSCQNILLSNAPLGPQF PFTGVDDRESWPSVFYNRTCQC SGNFMGFNCGNCKFGFWGPNCTERRLLV RRNIFDLSAPEKDKFFAYLTLAKHTISSDYVIPIGTYGQMKNGSTPMFNDINIYDL FVWMHYVVSMDALLGGSEIWRDIDFAHEAPAFLPWHRLFLLRWEQEIQKLTG DENFTIPYWDWRDAEKCDICTDEYMGGQHPTNP NLLSPASFFSSWQIVCSRL EEYN SHQSLCNGTPEGPLRRNPGNHDKSRTPRLPSSADVEFCLSLTQYESGS MDKAANFSFRNTLEGFASPLTGIADASQSSMHNALHIYMNGTMSQV
Research Area	Metabolism
Source	E.coli
Target Names	TYR
Expression Region	19-377aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	56.7kDa
Protein Length	Partial
Image	



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

Description

The DNA sequence coding for 19-377aa of human Tyrosinase (TYR) was used to express recombinant TYR protein in the E.coli cells. The recombinant TYR protein was fused with a 6xHis-SUMO-tag at the N-terminus. According to the SDS-PAGE analysis, a molecular mass band of about 57 kDa of the TYR protein was visualized on the gel. The purity of this TYR protein is greater than 90%. This recombinant partial TYR protein may be used to produce specific anti-TYR antibodies or in the studies of TYR-mediated metabolism.

TYR is a copper-containing metalloenzyme responsible for the melanogenesis in mammals and enzymatic browning in the fruit and vegetables. It possesses both monophenolase activity and diphenolase activity. Inhibitors of TYR are attractive to act as depigmentation agents in cosmetics and medicinal industries and antibrowning compounds in the food and agriculture industries.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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