

Recombinant Rat Tyr Protein, His-tagged

Cat. No. Tyr-518R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Tyr Protein (Ile233-Leu530) with N-His tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	Ile233-Leu530
Description	Predicted to enable copper ion binding activity; protein homodimerization activity; and tyrosinase activity. Involved in several processes, including response to UV; response to cAMP; and response to vitamin D. Located in cytosol and nucleus. Used to study oculocutaneous albinism. Human ortholog(s) of this gene implicated in melanoma (multiple); ocular albinism; oculocutaneous albinism (multiple); retinoschisis; and vitiligo. Orthologous to human TYR (tyrosinase).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 43.7 kDa Accurate Molecular Mass: 38 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by

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accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

Storage

Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.

Storage Buffer

PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.

Reconstitution

Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name

Tyr tyrosinase [*Rattus norvegicus* (Norway rat)]

Official Symbol

Tyr

Synonyms

Tyr; tyrosinase; EC 1.14.18.1

Gene ID

308800

mRNA Refseq

NM_001107535

Protein Refseq

NP_001101005

UniProt ID

D4A9G4

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