

Recombinant Mouse Tyw5 Protein, Myc/DDK-tagged

Cat. No. Tyw5-6762M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length tRNA-yW synthesizing protein 5 (Tyw5), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	tRNA hydroxylase that acts as a component of the wybutosine biosynthesis pathway. Wybutosine is a hyper modified guanosine with a tricyclic base found at the 3'-position adjacent to the anticodon of eukaryotic phenylalanine tRNA. Catalyzes the hydroxylation of 7-(α -amino- α -carboxypropyl)wyosine (yW-72) into undermodified hydroxywybutosine (OHyW*). OHyW* being further transformed into hydroxywybutosine (OHyW) by LCMT2/TYW4. OHyW is a derivative of wybutosine found in higher eukaryotes.
Molecular Mass	36.6 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 μ g/mL as determined by microplate BCA method

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Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name Tyw5 tRNA-yW synthesizing protein 5 [*Mus musculus* (house mouse)]

Official Symbol Tyw5

Synonyms

Tyw5; tRNA-yW synthesizing protein 5; 1110034B05Rik; tRNA wybutosine-synthesizing protein 5; jmjC domain-containing protein C2orf60 homolog; tRNA yW-synthesizing enzyme 5; tRNA(Phe) (7-(3-amino-3-carboxypropyl)wyosine(37)-C(2))-hydroxylase; EC 1.14.11.42

Gene ID 68736

mRNA Refseq NM_001037742

Protein Refseq NP_001032831

UniProt ID A2RSX7

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