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AR50675PU-N Human C2orf60 (1-315, His-tag) - Purified

Alternate names: JmjC domain-containing protein C2orf60

Quantity: 0.5 mg

Concentration: 1 mg/ml (determined by Bradford assay)

Background: tRNA wybutosine-synthesizing protein 5, also known as TYW5, 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. TYW5 catalyzes the hydroxylation of 7-(a-amino-a-carboxypropyl)wyosine (yW-72) into undermodified hydroxywybutosine (OHyW). OHyW is a derivative of wybutosine found in higher eukaryotes.

Uniprot ID: A2RUC4

NCBI: NP_001034782

GeneID: 129450

Species: Human

Source: E. coli

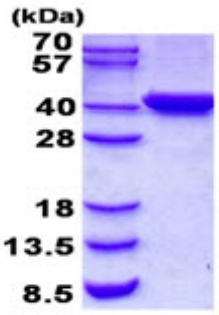
Format:
State: Liquid purified protein
Purity: >95% by SDS - PAGE
Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

Description: Recombinant human TYW5 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
AA Sequence:
MGSSHHHHHH SSGLVPRGSH MGSMAGQHLP VPRLEGVSRE QFMQHLYPQR KPLVLEGIDL
GPCTSKWTVD YLSQVGGKKE VKIHVAAVAQ MDFISKNFVY RTLPFDQLVQ RAAEEKHKEF
FVSEDEKYYL RSLGEDPRKD VADIRKQFPL LKGDIKFPEF FKEEQFFSSV FRISSPGLQL
WTHYDVMDNL LIQVTGKKRV VLFSPRDAQY LYLKGTKSEV LNIDNPDLAK YPLFSKARRY
ECSLEAGDVL FIPALWFHNV ISEEFGVGVN IFWKHLPSEC YDKTDTYGNK DPTAASRAAQ
ILDRALKTLA ELPEEYRDFY ARRMVLHIQD KAYSKNSE
Molecular weight: 38.9 kDa (338aa), confirmed by MALDI-TOF

Storage: Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings: Noma A., et al. (2010) J. Biol. Chem. 285:34503-34507Kato M., et al. (2011) Nucleic Acids Res. 39:1576-1585

Pictures:



15% SDS-PAGE (3ug)