abcam

Product datasheet

Recombinant Human Tyrosyl tRNA synthetase/TyrRS protein (Tagged) ab190402

Description

Product name	Recombinant Human Tyrosyl tRNA synthetase/TyrRS protein (Tagged)
Purity	> 90 % SDS-PAGE. The final product was refolded using unique “temperature shift inclusion body refolding” technology and chromatographically purified.
Expression system	Escherichia coli
Accession	P54577
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MASMTGGQQMGRGHHHHHHENLYFQGGEFGDAPSPEE KLHLITRNLQEVL GEEKLKEILKERELKIYWGTATTGKPHVAYFVPMSKIADFL KAGCEVTIL FADLHAYLDNMKAPWELLELRVSYYENVIKAMLESIGVPLE KLKFIKGTD YQLSKEYTLDVYRLSSVVTQHDSKKAGAEVVKQVEHPLL SGLLYPGLQAL DEEYLKVDAQFGGIDQRKIFTFAEKYLPALGYSKRVHLMN PMVPGLTGSK MSSSEEESKIDLLDRKEDVKKKLKKAFCEPGNVENNGVL SFIKHVLFPLK SEFVILRDEKWGGNKTYTAYVDLEKDFAAEVVHPGDLKN SVEVALNKLLD PIREKFNTPALKKLASAAYPDPSKQKPMAKGPAKNSEPE EVIPSRLDIRV GKIITVEKHPDADSLYVEKIDVGEAEPRTVVSGLVQFVPKE ELQDRLVVV LCNLKPQKMRGVESQGMLLCASIEGINRQVEPLDPPAGS APGEHVFVKGY EKGQPDEELKPKKKVFEKLQADFKISEECIAQWKQTNFM TKLGSISCKSL KGGNIS
Predicted molecular weight	62 kDa including tags

Amino acids	2 to 528
Tags	His-T7 tag N-Terminus
Additional sequence information	Constructed with codon optimization and expressed with a small T7-His-TEV cleavage site Tag (29aa) fusion at its N-terminal. NP_003671.1.

Specifications

Our **Abpromise guarantee** covers the use of **ab190402** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
Form	Liquid
Additional notes	Previously labelled as Tyrosyl tRNA synthetase

Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituent: 0.32% Tris HCl Contains NACl, EDTA, KCl, arginine, DTT and glycerol

General Info

Function	Catalyzes the attachment of tyrosine to tRNA(Tyr) in a two-step reaction: tyrosine is first activated by ATP to form Tyr-AMP and then transferred to the acceptor end of tRNA(Tyr).
Involvement in disease	Defects in YARS are the cause of Charcot-Marie-Tooth disease dominant intermediate type C (CMTDIC) [MIM:608323]. CMTDIC is a form of Charcot-Marie-Tooth disease characterized by clinical and pathologic features intermediate between demyelinating and axonal peripheral neuropathies, and motor median nerve conduction velocities ranging from 25 to 45 m/sec.
Sequence similarities	Belongs to the class-I aminoacyl-tRNA synthetase family. Contains 1 tRNA-binding domain.
Cellular localization	Cytoplasm.

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- Replacement or refund for products not performing as stated on the datasheet
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- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
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- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.com/abpromise** or contact our technical team.

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