

MMACHC, 1-282 aa, Human, His tag, E.coli

Cat.NO.: TP02987

3th Edition

Synonyms: Methylmalonic aciduria and homocystinuria type C protein, RP11-291L19.3, cbIC.

Description: The exact function of MMACHC is not known, however, its C-terminal region shows similarity to TonB, a bacterial protein involved in energy transduction for cobalamin (vitamin B12) uptake. Hence, it is postulated that this protein may have a role in the binding and intracellular trafficking of cobalamin. Mutations in this protein are associated with methylmalonic aciduria and homocystinuria type cbIC.

Form: Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

Molecular Weight: 34 kDa (306aa), confirmed by MALDI-TOF

Sequences:

MGSSHHHHHHSSGLVPRGSHMGSHMEPKVAELKQKIEDTLCPFGFEVYPPFQVAWYNELLPPAFHLPLPGPTLAF
VLSTPAMFDRALKPFLQSCHLRMLTDPVDQCVAYHLGRVRESLPELQIEIIADYEVHPNRRPKILAQTAHVAGAA
YYQRQDVEADPWGNQRISGVCIHPRFGGWFAIRGVVLLPGIEVPDLPPRKPHDCVPTRADRIALLEGFNFHWRD
TYRDAVTPQERYSEEQKAYFSTPPAQLALLGLAQPSEKPSSPSDLPFTTPAPKKPGNPSRARSWLSPRVSPPA
SPGP

Purity: > 95% by HPLC

Concentration: 0.5 mg/ml (determined by Bradford assay)

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.