

**QKI, 1-341aa, Human, His tag, E.coli**

**Cat.NO.: TP03614**

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3th Edition

**Synonyms:**Protein quaking isoform HQK-5, Hqk, hqkl, QK, QK1, QK3

**Description:**Protein quaking isoform HQK-5, also known as QKI, is an RNA-binding protein that regulates pre-mRNA splicing, export of mRNAs from the nucleus, protein translation, and mRNA stability. It is involved in myelination and oligodendrocyte differentiation, and it may play a role in schizophrenia. Defects or deletions in the QKI are associated with astrocytic tumors and may be involved in the pathogenesis of schizophrenia. Recombinant human QKI protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

**Form:**Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 50% glycerol, 2mM DTT

**Molecular Weight:**40.1 kDa (364aa) confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHSSGLVPRGSHMGSMVGEMETKEKPKPTPDYLMQLMNDKCLMSSLPNFCGIFNHLERLLDEEISR  
VRKDMYNDTLNGSTEKRSAELPDAVGPIVQLQEKLVPVKEYPDFNFVGRILGPRGLTAKQLEAETGCKIMVRGKG  
SMRDKKKKEEQNRGKPNWEHLNEDLHVLITVEDAQNRAEIKLKRAVEEVKLLVPAEGEDSLKKMQLMELAILNGT  
YRDANIKSPALAFSLAATAQAAPRIITGPAPVLPPAALRTPTPAGPTIMPLIRQIQTAVMPNGTPHPTAAIVPPGPEAG  
LIYTPYEYPYTLAPATSILEYPIEPSGVLGAVATKVRRHDMRVHPYQRIVTADRAATGN

**Purity:**> 95% by HPLC

**Concentration:**0.25mg/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.