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Recombinant human QKI protein

Catalog Number: ATGP2377

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-341aa

UniProt No.
Q96PU8

NCBI Accession No.
NP_006766

Alternative Names
Protein quaking isoform HQK-5, Hqk, hqkI, QK, QK1, QK3

PRODUCT SPECIFICATION

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

Concentration
0.25mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 50% glycerol, 2mM DTT

Purity
> 85% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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 myelinization 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.

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Amino acid Sequence

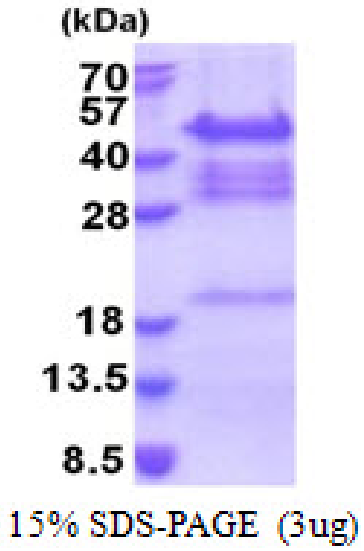
MGSSHHHHHH SSGLVPRGSH MGSMVGEMET KEKPKPTPDY LMQLMNDKKL MSSLPNFCGI FNHLERLLDE EISRVRKDMY NDTLNGSTEK RSAELPDAVG PIVQLQEKLY VPVKEYPDFN FVGRILGPRG LTAKQLEAET GCKIMVRGKG SMRDKKKEEQ NRGKPNWEHL NEDLHVLITV EDAQNRAEIK LKRAVEEVKK LLVPAAEGED SLKKMQLMEL AILNGTYRDA NIKSPALAFS LAATAQAAPR IITGPAPVLP PAALRTPTPA GPTIMPLIRQ IQTAVMPNGT PHPTAAIVPP GPEAGLIYTP YEYPYTLAPA TSILEYPIEP SGVLGAVATK VRRHDMRVHP YQRIVTADRA ATGN

General References

Hardy R J., et al. (1996) J Neurosci. 16: 7941-7949.
Ebersole T A., et al. (1996) Nat Genet. 12: 260-265.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.