Recombinant human MafK protein

Catalog Number: ATGP1931

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-156aa

UniProt No.
O60675

NCBI Accession No.
NP_002351

Alternative Names
Transcription factor MafK, NFE2u, P18

PRODUCT SPECIFICATION

Molecular Weight
19.7 kDa (176aa)

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

Purity
> 85% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE,Denatured

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
MAFK belongs to the bZIP family and Maf subfamily. Members of the Maf family of basic region/leucine zipper (bZIP) transcription factors affect transcription in either a positive or negative fashion, depending on their particular protein partner and the context of the target promoter. Small Mafs behave as transcriptional repressors when they dimerize among themselves. However, they seem to serve as transcriptional activators by dimerizing with other basic-zipper proteins and recruiting them to specific DNA-binding sites. Small Maf proteins heterodimerize with Fos and may act as competitive repressors of the NF-E2 transcription factor. Recombinant

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human MAFK protein, fused to His-tag at N-terminus, was expressed in E. coli.

Amino acid Sequence

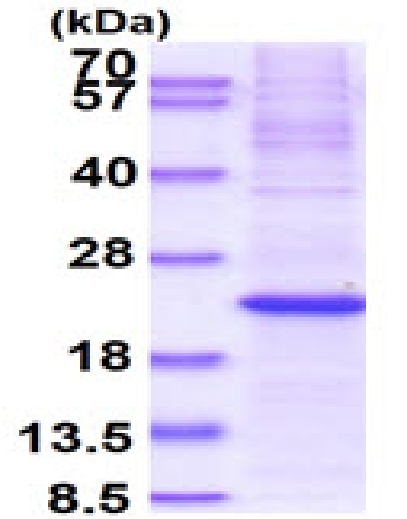
MGSSHHHHHH SSGLVPRGSH MTTNPKPNKA LKVKKEAGEN APVLSDDELV SMSVRELNQH LRGLTKEEVT RLKQRRRTLK NRGYAASCRI KRVTQKEELE RQRVELQQEV EKLARENSSM RLELDALRSK YEALQTFART VARGPVAPSK VATTSVITIV KSTELSSTSV PFSAAS

General References

Iwata T, et al. (1998) Cytogenet Cell Genet 82 (1-2): 88-90.
Du MJ, et al. (2008) Int J Biochem Cell Biol. 40(8):1481-93.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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