

Recombinant human HEXIM1 protein

Catalog Number: ATGP0475

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-359aa

UniProt No.

O94992

NCBI Accession No.

NP_006451.1

Alternative Names

Hexamethylene bis-acetamide inducible 1, CLP1, EDG1, HIS1, MAQ1, Hexamethylene bis-acetamide inducible 1 Cardiac lineage protein 1, CLP 1, EDG 1, FLJ13562, Hexamethylene bis acetamide inducible 1, Hexamethylene bis acetamide inducible protein, Hexamethylene bis acetamide inducible transcript 1, HEXIM 1, HEXIM1 protein, HIS 1, HMBA inducible, MAQ 1, Menage a quatre 1.

PRODUCT SPECIFICATION

Molecular Weight

44.8 kDa (396aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 0.1M NaCl

Purity

> 90% 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

HEXIM1 is induced by hexamethylene-bis-acetamide in vascular smooth muscle cells. This protein has been shown to form a protein-RNA complex composed of 7SK small nuclear RNA and positive transcription elongation factor b (P-TEFb), which is composed of cyclin-dependent kinase 9 (CDK9) and cyclin T1, and to inhibit the kinase

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activity of CDK9, thereby suppressing RNA polymerase II-dependent transcriptional elongation. Recombinant HEXIM1 protein was expressed in *E. coli* and purified by using conventional chromatography techniques.

Amino acid Sequence

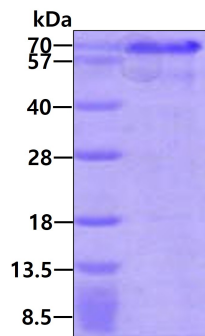
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EAELLAQPCH DSEASKLGAP AAGGEEEWGQ QQRQLGKKKH RRRPSKKKRH WKPYYKLTWE EKKKFDEKQS LRASRIRAEM
FAKGQPVAPY NTTQFLMDDH DQEEDLKTG LYSKRAAAKS DDTSDDDFME EGGEEDGGSD GMGGDGSEFL
QRDFSETYER YHTESLQNS KQELIKEYLE LEKCLSRMED ENNRLRLESK RLGDDARVR ELELELDRLR AENLQLLTEN
ELHRQERAP LSKFGD

General References

Shimizu N., et al. (2005) Proc. Natl. Acad. Sci. u.S.A. 102(24):8555-60
Li Q., et al. (2007) Nucleic Acids Res 35(8):2503-12.

DATA

SDS-PAGE



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