

Recombinant human MINA protein

Catalog Number: ATGP2802

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-465aa

UniProt No.

Q8IUJ8

NCBI Accession No.

AAH14928

Alternative Names

MYC induced nuclear antigen, FLJ14393, MDIG, MINA53, NO52

PRODUCT SPECIFICATION

Molecular Weight

54.9 kDa (485aa)

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

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

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

MINA is an oxygenase that can act as both a histone lysine demethylase and a ribosomal histidine hydroxylase. This protein is involved in the demethylation of trimethylated 'Lys-9' on histone H3 (H3K9me3), leading to an increase in ribosomal RNA expression. It also catalyzes the hydroxylation of 60S ribosomal protein L27a on 'His-39'. MINA may play an important role in cell growth and survival. It may be involved in ribosome biogenesis, most likely during the assembly process of pre-ribosomal particles. Recombinant human MINA 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

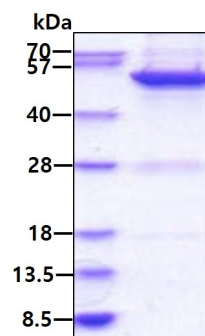
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QRFKDELWRI QEKLECYFGS LVGSNVYITP AGSQGLPPHY DDVEVFILQL EGEKHWRLYH PTVPLAREYS VEAERIGRP
VHEFMLKPGD LLYFPRGTIH QADTPAGLAH STHVTISTYQ NNSWGDFLLD TISGLVFDTA KEDVELRTGI PRQLLQVES
TTVATRRLSG FLRTLADRLE GTKELLSSDM KKDFIMHRLP PYSAGDGAEL STPGGKLPRL DSVVRLQFKD HIVLTVLPDQ
DQSDETQEKM VYIYHSLKNS RETHMMGNEE ETEFHGLRFP LSHLDALKQI WNSPAISVKD LKLTTDEEKE SLVLSLWTEC
LIQVV

General References

Strausberg, R.L., et al. (2002) Proc. Natl. Acad. Sci. u.S.A. 99 (26), 16899-16903

DATA

SDS-PAGE



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