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Recombinant human ID1 protein

Catalog Number: ATGP2046

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-155aa

UniProt No.
P41134

NCBI Accession No.
NP_002156

Alternative Names
DNA-binding protein inhibitor ID-1, bHLHb24, ID

PRODUCT SPECIFICATION

Molecular Weight
18.5 kDa (178aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM 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
ID1 is a helix-loop-helix (HLH) protein that can form heterodimers with members of the basic HLH family of transcription factors. The protein has no DNA binding activity and therefore can inhibit the DNA binding and transcriptional activation ability of basic HLH proteins with which it interacts. This protein may play a role in cell growth, senescence, and differentiation. Recombinant human ID1 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

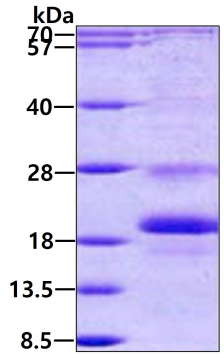
<MGSSHHHHHH SSGLVPRGSH MGS>MKVASGS TATAAAGPSC ALKAGKTASG AGEVVRCLSE QSVAISRCAG GAGARLPALL DEQQVNVLLY DMNGCYSRLK ELVPTLPQNR KVSKVEILQH VIDYIRDLQL ELNSESEVGT PGGRGLPVRA PLSTLNGEIS ALTAEAACVP ADDRILCR

General References

Deed R.W., et al. (1994) Biochim. Biophys. Acta. 1219:160-162
Hara E., et al. (1994) J. Biol. Chem. 269:2139-2145

DATA

SDS-PAGE



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