

Recombinant Human inhibitor of DNA binding 1, dominant negative helix-loop-helix protein, His-tagged

Cat. No. ID1-531H Lot. No. (See product label)

SPECIFICATION

Product Overview	ID1, 1-155aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-155 a.a.
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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT
Molecular Mass	18.5 kDa (178aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMKVASGS TATAAAGPSC ALKAGKTASG AGEVVRCLSE QSVAISRCAG GAGARLPALL DEQQVNVLLY DMNGCYSRLK ELVPTLPQNR KVSKVEILQH VIDYIRDLQL ELNSESEVGT PGGRGLPVRA

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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Purity >85% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name ID1 inhibitor of DNA binding 1, dominant negative helix-loop-helix protein [Homo sapiens]

Official Symbol ID1

Synonyms ID1; inhibitor of DNA binding 1, dominant negative helix-loop-helix protein; DNA-binding protein inhibitor ID-1; bHLHb24; dJ857M17.1.2; DNA binding protein inhibitor ID 1; inhibitor of differentiation 1; class B basic helix-loop-helix protein 24; dJ857M17.1.2 (inhibitor of DNA binding 1, dominant negative helix-loop-helix protein); ID;

Gene ID 3397

mRNA Refseq NM_002165

Protein Refseq NP_002156

MIM 600349

UniProt ID P41134

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Chromosome Location	20q11
Pathway	ALK1 signaling events, organism-specific biosystem; IL-3 Signaling Pathway, organism-specific biosystem; Id Signaling Pathway, organism-specific biosystem; Notch-mediated HES/HEY network, organism-specific biosystem; TGF-beta signaling pathway, organism-specific biosystem; TGF-beta signaling pathway, conserved biosystem;
Function	protein binding;

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