Recombinant Human ID2, His-tagged

Cat. No. ID2-7547H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human ID2 protein, fused to His-tag at N-terminus, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	1-134aa
Antigen Description	ID2 belongs to the inhibitor of DNA binding (ID) family, members of which are transcriptional regulators that contain a helix-loop-helix (HLH) domain but not a basic domain. Members of the ID family inhibit the functions of basic helix-loop-helix transcription factors in a dominant-negative manner by suppressing their heterodimerization partners through the HLH domains. This protein may play a role in negatively regulating cell differentiation.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol 0.4M Urea
Molecular Mass	17.0 kDa(154aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MKAFSPVRSV RKNSLSDHSL GISRSKTPVD DPMSLLYNMN DCYSKLKELV PSIPQNKKVS KMEILQHVID YILDLQIALD SHPTIVSLHH QRPGQNQASR TPLTTLNTDI SILSLQASEF PSELMSNDSK ALCG
Purity	>85% as determined by SDS - PAGE

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Applications	SDS-PAGE
Storage	Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml

GENE INFORMATION

Gene Name	ID2 inhibitor of DNA binding 2, dominant negative helix-loop-helix protein [Homo sapiens]
Official Symbol	ID2
Synonyms	ID2; inhibitor of DNA binding 2, dominant negative helix-loop-helix protein; DNA-binding protein inhibitor ID-2; bHLHb26; cell growth inhibiting gene 8; GIG8; helix-loop-helix protein ID2; cell growth-inhibiting gene 8; inhibitor of differentiation 2; DNA-binding protein inhibitor ID2; class B basic helix-loop-helix protein 26; ID2A; ID2H; MGC26389;
Gene ID	3398
mRNA Refseq	NM_002166
Protein Refseq	NP_002157
MIM	600386
UniProt ID	Q02363
Chromosome	2p25

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Location	
Pathway	HIF-1-alpha transcription factor network, organism-specific biosystem; Id Signaling Pathway, organism-specific biosystem; Regulation of Wnt-mediated beta catenin signaling and target gene transcription, organism-specific biosystem; TGF-beta signaling pathway, organism-specific biosystem; TGF-beta signaling pathway, conserved biosystem; Transcriptional misregulation in cancer, organism-specific biosystem; Transcriptional misregulation in cancer, conserved biosystem;
Function	ion channel binding; protein binding;

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