Recombinant Human ID4

Cat. No. ID4-28592TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 60-110 of Human ID4with a proprietary tag, predicted MWt 31 kDa
Species	Human
Source	Wheat Germ
ProteinLength	51 amino acids
Description	Transcription factors containing a basic helix-loop-helix (bHLH) motif regulate expression of tissue-specific genes in a number of mammalian and insect systems. DNA-binding activity of the bHLH proteins is dependent on formation of homo- and/or heterodimers. Dominant-negative HLH proteins encoded by Id-related genes, such as ID4, also contain the HLH-dimerization domain but lack the DNA-binding basic domain. Consequently, Id proteins inhibit binding to DNA and transcriptional transactivation by heterodimerization with bHLH proteins (Pagliuca et al.
Molecular Weight	31.240kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.79% Tris HCl, 0.31% Glutathione

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Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	PALCLQCDMNDCYSRLRRLVPTIPPNKKVSKVEILQHVIDYILDLQLALET
Sequence Similarities	Contains 1 basic helix-loop-helix (bHLH) domain.

GENE INFORMATION

Gene Name	ID4 inhibitor of DNA binding 4, dominant negative helix-loop-helix protein [Homo sapiens]
Official Symbol	ID4
Synonyms	ID4; inhibitor of DNA binding 4, dominant negative helix-loop-helix protein; DNA-binding protein inhibitor ID-4; bHLHb27;
Gene ID	3400
mRNA Refseq	NM_001546
Protein Refseq	NP_001537
MIM	600581
Uniprot ID	P47928
Chromosome Location	6p22.3

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Pathway	Id Signaling Pathway, organism-specific biosystem; TGF-beta signaling pathway, organism-specific biosystem; TGF-beta signaling pathway, conserved biosystem;
Function	RNA polymerase II transcription factor binding; protein binding; transcription corepressor activity;

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