

Recombinant Human SIX Homeobox 1, His-tagged

Cat. No. SIX1-7160H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human SIX1 protein, fused to His-tag at N-terminus, was expressed in E. coli. MW: 34.7 kDa.
Species	Human
Source	E.coli
ProteinLength	1-284aa
Description	SIX1, also known as homeobox protein SIX1, is a member of the SIX gene family. It encodes protein that is characterized by a divergent DNA-binding homeodomain and an upstream SIX domain, which may be involved both in determining DNA-binding specificity and in mediating protein-protein interactions. It has been shown to play roles in vertebrate and insect development or has been implicated in maintenance of the differentiated state of tissues.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol 2M Urea.
Molecular Mass	34.7 kDa(308aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMSMLPS FGFTQEQVAC VCEVLQQGGN LERLGRFLWS LPACDHLHKN ESVLKAKAVV AFHRGNFREL YKILESHQFS PHNHPKLQQL WLKAHYVEAE KLRGRPLGAV GK YRVRRKFP LPRTIWDGEE TSYCFKEKSR GVLREWYAHN PYSPREKRE LAEATGLTTT QVSNWFKNRR QRDRAAEAKE RENTENNNSS SNKQNQLSPL EGGKPLMSSS EEEFSPQSP

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DQNSVLLQLG NMGHARSSNY SLPGLTASQP SHGLQTHQHQ LQDSLLGPLT
SSLVDLGS

Purity >85% by SDS - PAGE

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 1.0 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name SIX1 SIX homeobox 1 [Homo sapiens]

Official Symbol SIX1

Synonyms SIX1; SIX homeobox 1; deafness, autosomal dominant 23 , DFNA23, sine oculis homeobox (Drosophila) homolog 1 , sine oculis homeobox homolog 1 (Drosophila); homeobox protein SIX1; sine oculis homeobox homolog 1; BOS3; TIP39; DFNA23;

Gene ID 6495

mRNA Refseq NM_005982

Protein Refseq NP_005973

MIM 601205

UniProt ID Q15475

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Chromosome Location	14q23.1
Pathway	Transcriptional misregulation in cancer, organism-specific biosystem; Transcriptional misregulation in cancer, conserved biosystem;
Function	DNA binding; chromatin binding; protein binding; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; transcription regulatory region DNA binding;

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