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# Recombinant human DLX3 protein

Catalog Number: ATGP2482

#### PRODUCT INFORMATION

### **Expression system**

E.coli

#### **Domain**

1-186aa

#### **UniProt No.**

060479

#### **NCBI Accession No.**

NP 005211.1

#### **Alternative Names**

homeobox protein DLX-3, AI4, TDO

## **PRODUCT SPECIFICATION**

#### **Molecular Weight**

23.4 kDa (209aa)

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

#### **Purity**

> 85% by SDS-PAGE

#### Tag

His-Tag

#### **Application**

SDS-PAGE, Denatured

## **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**

Many vertebrate homeo box-containing genes have been identified on the basis of their sequence similarity with Drosophila developmental genes. Members of the Dlx gene family contain a homeobox that is related to that of Distal-less (Dll), a gene expressed in the head and limbs of the developing fruit fly. The Distal-less (Dlx) family of genes comprises at least 6 different members, DLX1-DLX6. Trichodentoosseous syndrome (TDO), an autosomal dominant condition, has been correlated with DLX3 gene mutation. This gene is located in a tail-to-tail configuration with another member of the gene family on the long arm of chromosome 17. Mutations in DLX3



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have been associated with the autosomal dominant conditions trichodentoosseous syndrome and amelogenesis imperfecta with taurodontism. Recombinant human DLX3 protein, fused to His-tag at N-terminus, was expressed in E. coli.

#### **Amino acid Sequence**

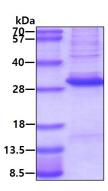
<MGSSHHHHHH SSGLVPRGSH MGS>MSGSFDR KLSSILTDIS SSLSCHAGSK DSPTLPESSV TDLGYYSAPQ
HDYYSGQPYG QTVNPYTYHH QFNLNGLAGT GAYSPKSEYT YGASYRQYGA YREQPLPAQD PVSVKEEPEA EVRMVNGKPK
KVRKPRTIYS SYQLAALQRR FQKAQYLALP ERAELAAQLG LTQTQVKIWF QNRRSKFKK

#### **General References**

Price J.A., et al (1998). Hum. Mol. Genet. 7:563-569

## **DATA**

#### **SDS-PAGE**



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

