

# Recombinant human DLX3 protein

Catalog Number: ATGP2482

## PRODUCT INFORMATION

---

### Expression system

E.coli

### Domain

1-186aa

### UniProt No.

O60479

### 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. Trichodontoosseous 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

# Recombinant human DLX3 protein

Catalog Number: ATGP2482

have been associated with the autosomal dominant conditions trichodontoosseous 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

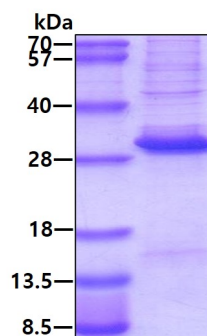
<MGSSHHHHHH SSGLVPRGSH MGS>MSGSFDR KLSSILTDIS SSSLCHAGSK DSPTLPESV TDLGYYSAPQ  
HDYYSGQPYG QTVNPTYHH QFNLNLAGT GAYSPKSEYT YGASYRQYGA YREQPLPAQD PVSVKEEPEA EVRMVNGKPK  
KVRKPRTIYS SYQLAALQRR FQKAQYLALP ERAELAAQLG LTQTQVKIWF QNRRSKFKK

## General References

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

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.