## 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. 20 mM 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 +2 C to +8 C 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 (DII), 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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## Recombinant human DLX3 protein

Catalog Number: ATGP2482
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.

