

Recombinant human PAX8 protein

Catalog Number: ATGP2898

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-287aa

UniProt No.

Q06710

NCBI Accession No.

NP_054698.1

Alternative Names

Paired box protein Pax-8 isoform PAX8E, Paired box protein Pax-8 isoform PAX8E, paired box 8

PRODUCT SPECIFICATION

Molecular Weight

33.4 kDa (310aa) confirmed by MALDI-TOF

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 20% glycerol , 1mM DTT

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

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

Paired box protein Pax-8 isoform PAX8E, also known as PAX8, is expressed in the developing and adult thyroid, the developing secretory system and at lower levels, in the adult kidney. PAX8 complexes with TTF-1 and TTF-2 to induce thyroid follicular cell differentiation and thyroid hormone biosynthesis by regulating the expression of sodium iodide symporter (NIS), thyroid peroxidase (TPO), thyroglobulin (TG) and the thyrotropin receptor (TSHR). Defects in PAX8 are the cause of congenital hypothyroidism non-goitrous type 2 (CHNG2). Recombinant human PAX8 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional

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chromatography techniques.

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGS>MPHNSIR SGHGGLNQLG GAFVNGRPLP EVVRQRIVDL AHQGVRPCDI
SRQLRVSHGC VSKILGRYYE TGSIRPGVIG GSKPKVATPK VVEKIGDYKR QNPTMFAWEI RDRLLAEGVC DNDTVPSVSS
INRIIRTKVQ QPFNLPMDSC VATKSLSPGH TLIPSSAVTP PES PQSDSLG STYSINGLLG IAQPGSDKRK MDDSDQDSCR
LSIDSQSSSS GPRKHLRTDA FSQHHLEPLE CPERQHYPE AYASPSHTKG EQEVNTLAMP MATPPTPPTA RPGASPTPAC

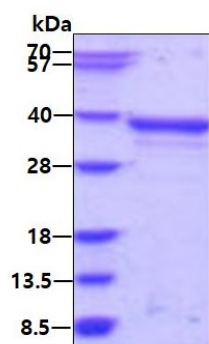
General References

Paters H., et al. (1998) Eur J Oral Sci. 106: 38-43.

Poleev A., et al. (1995) Eur J Biochem. 228: 899-911.

DATA

SDS-PAGE



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