

AR51718PU-N

Human PAX8 (1-287, His-tag) - Purified

Alternate names:

Paired box protein Pax-8, Pax-8

Quantity:

0.25 mg

Concentration:

0.25 mg/ml (determined by Bradford assay)

Background:

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).

Uniprot ID:

[Q06710](#)

NCBI:

[NP_054698](#)

GeneID:

[7849](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >90% by SDS - PAGE

Buffer System: Phosphate buffer saline (pH 7.4) containing 20% glycerol , 1mM DTT.

Description:

Recombinant human PAX8 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MGSSHHHHH SSGLVPRGSH MGSMPHNSIR SGHGGLNQLG GAFVNGRPLP EVVRQRIVDL
AHQGVPRCDI SRQLRVSHGC VSKILGRYYE TGSIRPGVIG GSKPKVATPK VVEKIGDYKR
QNPTMFAWEI RDRLLAEGVC DNDTVPSVSS INRIIRTKVQ QPFNLPMDS VTKSLSPGH
TLIPSSAVTP PES PQSDSLG STYSINGLLG IAQPGSDKRK MDDSDQDSCR LSIDSQSSSS
GPRKHLRTDA FSQHHLEPLE CPFERQHYPE AYASPSHTKG EQEVNTLAMP MATPPTPTPTA
RPGASPTPAC

Molecular weight: 33.4 kDa (310aa) confirmed by MALDI-TOF

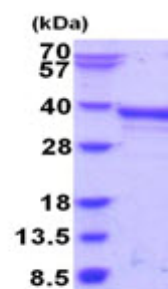
Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.
Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings:

Paters H., et al. (1998) Eur J Oral Sci. 106: 38-43. Poleev A., et al. (1995) Eur J Biochem. 228: 899-911.

Pictures:



15% SDS-PAGE (3ug)