Product information



PAX8, 1-287aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP2898

Full name: Paired box protein Pax-8 isoform PAX8E NCBI Accession No.: NP 054698

Synonyms: paired box 8

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. PAX8complexes 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 chromatography techniques.

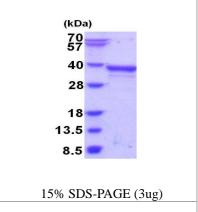
Form: Liquid. In Phosphate buffer saline (pH 7.4) containing 20% glycerol,

1mM DTT

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

Purity: > 90% by SDS - PAGE

Concentration: 0.25 mg/ml (determined by Bradford assay)



Sequences of amino acids:

MGSSHHHHHH SSGLVPRGSH MGSMPHNSIR SGHGGLNQLG GAFVNGRPLP EVVRQRIVDL AHQGVRPCDI SRQLRVSHGC VSKILGRYYE TGSIRPGVIG GSKPKVATPK VVEKIGDYKR QNPTMFAWEI RDRLLAEGVC DNDTVPSVSS INRIIRTKVQ QPFNLPMDSC VATKSLSPGH TLIPSSAVTP PESPQSDSLG STYSINGLLG IAQPGSDKRK MDDSDQDSCR LSIDSQSSSS GPRKHLRTDA FSQHHLEPLE CPFERQHYPE 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.

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.

Avoid repeated freezing and thawing cycles.

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