

## 32-4399: Recombinant Human Paired Box 8

**Alternative Name :** Paired Box 8, Paired Box Gene 8, PAX8.

### Description

Source : Escherichia Coli. PAX8 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 310 amino acids (1-287 a.a) and having a molecular mass of 33.4kDa. PAX8 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. Paired box 8, also known as PAX8 functions in thyroid follicular cell development as well as in expression of thyroid-specific genes. PAX8 complexes with TTF-1 & TTF-2 in order to stimulate thyroid follicular cell differentiation and thyroid hormone biosynthesis by regulating the expression of NIS (sodium iodide symporter), TPO (thyroid peroxidase), TG (thyroglobulin) and the TSHR (thyrotropin receptor). Defects in PAX8 are the cause of CHNG2 (congenital hypothyroidism non-goitrous type 2).

### Product Info

<b>Amount :</b>	10 µg
<b>Purification :</b>	Greater than 90.0% as determined by SDS-PAGE.
<b>Content :</b>	PAX8 protein solution (0.25mg/ml) containing Phosphate buffered saline (pH7.4), 20% glycerol and 1mM DTT.
<b>Storage condition :</b>	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
<b>Amino Acid :</b>	MGSSHHHHH SSGLVPRGSH MGSMPHNSIR SGHGGLNQLG GAFVNGRPLP EVVRQRIVDL AHQGVPRCDI SRQLRVSHGC VSKILGRYYE TGSIRPGVIG GSKPKVATPK VVEKIGDYKR QNPTMFAWEI RDRLLAEGVC DNDTVPSVSS INRIIRTKVQ QPFNLPMDS VTKSLSPGH TLIPSSAVTP PESQSDSLG STYSINGLLG IAQPGSDKRK MDDSDQDSCR LSIDSQSSSS GPRKHLRTDA FSQHHLEPLE CPERQHYPE AYASPSHTKG EQEVNTLAMP MATPPTPPTA RPGASPTPAC

