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## Product Data Sheet

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Product Name: PAX8 Human  
 Cat. No.: GP24128  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Paired Box 8; Paired Box Gene 8; PAX8.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMPHNSIR SGHGGLNQLG GAFVNGRPLP EVVRQRIVDL AHQGVPCDI SRQLRVSHGC VSKILGRYYE TGSIRPGVIG GSKPKVATPK VVEKIGDYKR QNPTMFAWEI RDRLAEGVC DNDTVPSVSS INRIIRTKVQ QPFNLPMDSC VATKSLSPGH TLIPSSAVTP PESQSDSLG STYSINGLLG IAQPGSDKRK MDDSDQDSCR LSIDSQSSSS GPRKHLRTDA FSQHHLEPLE CPPERQHYPE AYASPSHTKG EQEVNTLAMP MATPPTPPTA RPGASPTPAC		
Formulation	PAX8 protein solution (0.25mg/ml) containing Phosphate buffered saline (pH7.4), 20% glycerol and 1mM DTT.		

### Introduction

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).

### Stability

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.

### Background

**Caution: Product has not been fully validated for medical applications. For research use only.**

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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.

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