

PAX8 Protein, Human, Recombinant (His)

General Information

Synonyms:	paired box 8
Protein Construction:	A DNA sequence encoding the mature form of human PAX8 (Q06710-1) (Pro2-Ser146) was expressed with a polyhistidine tag at the C-terminus. Predicted N terminal: Pro 2
Species:	Human
Expression Host:	E. coli
Accession:	Q06710-1
Molecular Weight:	16.9 kDa (predicted); 16 kDa (reducing conditions)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin:	Please contact us for more information.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS, 10% Glycerol, pH 8.0. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

PAX8 gene is a member of the paired box (PAX) family of transcription factors. Members of this gene family typically encode proteins that contain a paired box domain, an octapeptide, and a paired-type homeodomain. PAX8 is involved in thyroid follicular cell development and expression of thyroid-specific genes. Also functions in very early stages of kidney organogenesis. Mutations in PAX8 gene have been associated with thyroid dysgenesis, thyroid follicular carcinomas and atypical follicular thyroid adenomas. Alternate transcriptional splice variants,

encoding different isoforms, have been characterized.

Reference

Poleev A. et al., 1995, Eur J Biochem. 228 (3): 899-911

Poleev A. et al., 1993, Development. 116 (3): 611-23.

Di Palma. et al., 2003, J Biol Chem. 278 (5): 3395-402.

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