

Recombinant Human PITX2 Protein, HIS-tagged

Cat. No. PITX2-135H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human PITX2, transcript variant 2, fused with His tag at N-terminal was expressed in E. coli.

Species Human

Source E.coli

Description This gene encodes a member of the RIEG/PITX homeobox family, which is in the bicoid class of homeodomain proteins. The encoded protein acts as a transcription factor and regulates procollagen lysyl hydroxylase gene expression. This protein plays a role in the terminal differentiation of somatotroph and lactotroph cell phenotypes, is involved in the development of the eye, tooth and abdominal organs, and acts as a transcriptional regulator involved in basal and hormone-regulated activity of prolactin. Mutations in this gene are associated with Axenfeld-Rieger syndrome, iridogoniodysgenesis syndrome, and sporadic cases of Peters anomaly. A similar protein in other vertebrates is involved in the determination of left-right asymmetry during development. Alternatively spliced transcript variants encoding distinct isoforms have been described.

Form 25mM Tris, pH8.0, 150 mM NaCl, 10% glycerol, 1 % Sarkosyl. Store at -80 centigrad e. Avoid repeated freeze-thaw cycles. Stable for at least 3 months from receipt of products under proper storage and handling conditions.

Molecular Mass 35.2 kDa

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Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Concentration >50 ug/mL as determined by microplate BCA method

GENE INFORMATION

Gene Name PITX2 paired-like homeodomain 2 [Homo sapiens]

Official Symbol PITX2

Synonyms

PITX2; paired-like homeodomain 2; IHG2, IRID2, paired like homeodomain transcription factor 2 , RGS, RIEG, RIEG1; pituitary homeobox 2; ARP1; Brx1; IGDS; Otlx2; RS; solurshin; all1-responsive gene 1; homeobox protein PITX2; ALL1-responsive protein ARP1; paired-like homeodomain transcription factor 2; rieg bicoid-related homeobox transcription factor 1; RGS; IDG2; IHG2; PTX2; RIEG; IGDS2; IRID2; RIEG1; MGC20144; MGC111022;

Gene ID 5308

mRNA Refseq NM_000325

Protein Refseq NP_000316

MIM 601542

UniProt ID Q99697

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