

Recombinant Human NKX2-5 Protein, GST-tagged

Cat. No. NKX2-5-5900H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human NKX2-5 full-length ORF (AAH25711, 1 a.a. - 324 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
ProteinLength	1-324 a.a.
Description	Homeobox-containing genes play critical roles in regulating tissue-specific gene expression essential for tissue differentiation, as well as determining the temporal and spatial patterns of development (Shiojima et al., 1995 [PubMed 7665173]). It has been demonstrated that a Drosophila homeobox-containing gene called tinman is expressed in the developing dorsal vessel and in the equivalent of the vertebrate heart. Mutations in tinman result in loss of heart formation in the embryo, suggesting that tinman is essential for Drosophila heart formation. Furthermore, abundant expression of Csx, the presumptive mouse homolog of tinman, is observed only in the heart from the time of cardiac differentiation. CSX, the human homolog of murine Csx, has a homeodomain sequence identical to that of Csx and is expressed only in the heart, again suggesting that CSX plays an important role in human heart formation.[supplied by OMIM]
Molecular Mass	61.38 kDa
AA Sequence	MFPSPALTPTPFSVKDILNLEQQQRSLAAAGELSARLEATLAPSSCMLAAFKPEAYA

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GPEAAAPGLPELRAELGRAPSPAKCASAFPAAPAFYPRAYSDPDPAKDPRAEKEL
 CALQKAVELEKTEADNAERPRARRRRKPRVLFSQAQVYELERRFKQQRYSAPERD
 QLASVLKLTSTQVKIWFQNRRYKCKRQRQDQTLELVGLPPPPPPPARRIAVPVLVRD
 GKPCLGDSAPYAPAYGVGLNPYGYNAYPAYPGYGAACSPGYSCATAAYPAGPSA
 QPATAAANNFVNFGVGDNLNAVQSPGIPQSNSGVSTLHGIRAW

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

NKX2-5 NK2 homeobox 5 [*Homo sapiens*]

Official Symbol

NKX2-5

Synonyms

NKX2-5; NK2 homeobox 5; cardiac specific homeo box , CSX, NK2 transcription factor related, locus 5 (*Drosophila*) , NKX2E; homeobox protein Nkx-2.5; CSX1; NKX2.5; NKX4 1; tinman paralog (*Drosophila*); tinman paralog; homeobox protein CSX; cardiac-specific homeobox 1; homeobox protein NK-2 homolog E; NK2 transcription factor related, locus 5; CSX; VSD3; CHNG5; HLHS2; NKX2E; NKX4-1; FLJ52202; FLJ97166; FLJ97195; FLJ97197; FLJ99536;

Gene ID

1482

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mRNA Refseq [NM_001166175](#)

Protein Refseq [NP_001159647](#)

MIM [600584](#)

UniProt ID [P52952](#)

**Quality Control
Testing:**



12.5% SDS-PAGE Stained with Coomassie Blue.

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