

Recombinant Full Length Human NKX2-5 Protein, C-Flag-tagged

Cat. No. NKX2-5-1742HFL **Lot. No.** (See product label)

SPECIFICATION

| | |
|-------------------------|---|
| Product Overview | Recombinant Full Length Human NKX2-5 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells. |
| Species | Human |
| Source | Mammalian Cells |
| ProteinLength | 1-324 a.a. |
| Description | This gene encodes a homeobox-containing transcription factor. This transcription factor functions in heart formation and development. Mutations in this gene cause atrial septal defect with atrioventricular conduction defect, and also tetralogy of Fallot, which are both heart malformation diseases. Mutations in this gene can also cause congenital hypothyroidism non-goitrous type 5, a non-autoimmune condition. Alternative splicing results in multiple transcript variants. |
| Form | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol. |
| Molecular Mass | 34.7 kDa |
| AA Sequence | MFPSPALTPPFSVKDILNLEQQQRSLAAAGELSARLEATLAPSSCMLAAFKPEAYA GPEAAAPGLPELR AELGRAPSPAKCASAFPAAPAFYPRAYSDDPAKDPRAEKKEL CALQKAVELEKTEADNAERPRARRRRK PRVLFSSQAQVYELERRFKQQRYSAPER DQLASVLKLTSTQVKIWFQNRRYKCKRQRQDQTLELVGLPPP PPPARRIAVPVLV |

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RDGKPCCLGDSAPYAPAYGVGLNPNYGYNAYPAYPGYGG AACSPGYSCTAAYPAGPS
P
AQPATAAANNFVNFVGVGDLNAVQSPGIPQSNSGVSTLHGIRAWTRTRPLEQKLISE
EDLAANDILDYKDDDDKV

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

Stability Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

Storage Store at -80 centigrade.

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

Preparation Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Protein Families Transcription Factors

Full Length Full L.

GENE INFORMATION

Gene Name [NKX2-5 NK2 homeobox 5 \[Homo sapiens \(human\) \]](#)

Official Symbol [NKX2-5](#)

Synonyms CSX; CSX1; VSD3; CHNG5; HLHS2; NKX2E; NKX2.5; NKX4-1

Gene ID [1482](#)

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|----------------|-------------|
| mRNA Refseq | NM_004387.4 |
| Protein Refseq | NP_004378.1 |
| MIM | 600584 |
| UniProt ID | P52952 |

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