

Recombinant Human NKX2-5 Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. NKX2-5-340H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	NKX2 MS Standard C13 and N15-labeled recombinant protein (NP_004378) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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. [provided by RefSeq, Oct 2009]
Molecular Mass	34.9 kDa
AA Sequence	MFPSPALTPTPFSVKDILNLEQQQRSLAAAGELSARLEATLAPSSCMLAAFKPEAYA GPEAAAPGLPELRAELGRAPSPAKCASAFPAAPAFYPRAYSDPDPAKDPRAEKKEL CALQKAVELEKTEADNAERPRARRRRKPRVLFSQAQVYELERRFKQQRYSAPERD QLASVLKLTSTQVKIWFQNRRYKCKRQRQDQTLELVGLPPPPPPPARRIAVPVLVRD GKPCLGDSAPYAPAYGVGLNPYGYNAYPAYPGYGGAACSPGYSCATAAYPAGPSPA QPATAAANNFVNFGVGDNLNAVQSPGIPQSNVSTLHGIRAWTRTRPLEQKLISEE

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	DLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	NKX2-5 NK2 homeobox 5 [Homo sapiens (human)]
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
mRNA Refseq	NM_004387
Protein Refseq	NP_004378

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MIM	600584
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UniProt ID	P52952
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