# Recombinant Human Homeobox protein Nkx-2.5 (NKX2-5)

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| **Product Code** | CSB-EP015845HU-B |
| **Storage** | Store at -20°C, for extended storage, conserve at -20°C or -80°C. |
| **Uniprot No.** | P52952 |
| **Product Type** | Recombinant Protein |
| **Immunogen Species** | Homo sapiens (Human) |
| **Purity** | >85% (SDS-PAGE) |
| **Sequence** | MFPSPALTPT PFSVKDILNL EQQQRSLAAA GELSARLEAT LAPSSCMLAA FKPEAYAGPE AAAPGLPELR AELGRAPSPA KCASAFPAAP AFYPRAYSDP DPAKDPRAEK KELCALQKAV ELEKTEADNA ERPRARRRRK PRVLFSQAQV YELERRFKQQ RYLSAPERDQ LASVLKLTST QVKIWFQNRR YKCKRQRQDQ TLELVGLPPP PPPPARRIAV PVLVRDGKPC LGDSAPYAPA YGVGLNPYGY NAYPAYPGYG GAACSPGYSC TAAYPAGPSP AQPATAAANN NFVNFGVGDL NAVQSPGIPQ SNSGVSTLHG IRAW |
| **Source** | E.coli |
| **Target Names** | NKX2-5 |
| **Protein Names** | Recommended name: Homeobox protein Nkx-2.5 Alternative name(s): Cardiac-specific homeobox Homeobox protein CSX Homeobox protein NK-2 homolog E |
| **Expression Region** | 1-324 |
| **Notes** | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week. |
| **Tag Info** | Tag type will be determined during the manufacturing process. |
| **Protein Length** | Full length protein |
| **Target Details** | 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. |
| **Reconstitution** | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference. |
| **Shelf Life** | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.<br>Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life |

of lyophilized form is 12 months at -20°C/-80°C.