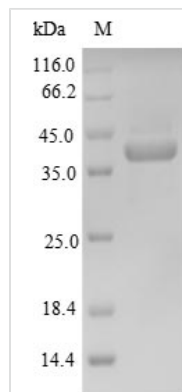




Recombinant Mouse Homeobox protein Nkx-3.2 (Nkx3-2)

Product Code	CSB-EP015849MOB1
Relevance	Transcriptional repressor that acts as a negative regulator of chondrocyte maturation. PLays a role in distal stomach development; required for proper antral-pyloric morphogenesis and development of antral-type epithelium. In concert with GSC, defines the structural components of the middle ear; required for tympanic ring and gonium development and in the regulation of the width of the malleus.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. 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.
Uniprot No.	P97503
Alias	Bagpipe homeobox protein homolog 1 Homeobox protein NK-3 homolog B
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MAVRGSGTLTPFSIQAILNKKEERGGLATPEGRPAPGGTEVAVTAAPAVCCW RIFGETEAGALGGAEDSLLASPARTRTAVGQSAESPGGWSDSDSALSENEGR RRCADVPGASGTGRARVTLGLDQPGCELHAAKDLEEEAPVRSDSEMSASVS GDHSPRGEDDSVSPGGARVPGLRGAAGSGASGGQAGGVEEEEPAAPKPR KKRSRAAFSHAQVFELERRFNHQRYLSGPERADLAASLKLTTETQVKIWFQNR RYKTKRRQMAADLLASAPAAKKVAVKVLVRDDQRQYLPGEVLRPPSLLPLQP SYYPYYPYCLPGWALSTCAAAAAGTQ
Lead Time	3-7 business days
Research Area	Epigenetics and Nuclear Signaling
Source	E.coli
Gene Names	Nkx3-2
Expression Region	1-333aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-tagged and C-terminal Myc-tagged
Mol. Weight	40.2kDa
Protein Description	Full Length
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

The synthesis of the recombinant plasmid containing the gene encoding the Mouse Nkx3-2 protein (1-333aa) is the first step to produce the recombinant Mouse Nkx3-2 protein. After that, the recombinant plasmid is transformed into e.coli cells. e.coli cells capable of enduring a specific antibiotic are selected, demonstrating successful uptake of the recombinant plasmid. The e.coli cells containing the recombinant plasmid are cultured under conditions that encourage the expression of the gene of interest. A N-terminal 10xHis tag and C-terminal Myc tag is linked to the protein. Following expression, affinity purification is employed to isolate and purify the recombinant Mouse Nkx3-2 protein from the cell lysate. Denaturing SDS-PAGE is applied to resolve the resulting recombinant Mouse Nkx3-2 protein, indicating a purity level exceeding 90%.

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.