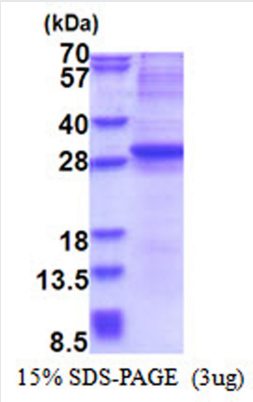
NEuROG3 Recombinant Protein

PRODUCT OVERVIEW

Product Name	NEuROG3, Recombinant Protein
Full Product Name	NEuROG3, 1-214aa, Human, His tag, E Coli (Denatured)
Product Gene Name	NEuROG3 recombinant protein
Product Synonym Names	Neurogenin 3; Atoh5; bHLHa7; Math4B; ngn3
Sequence	MGSSHHHHHH SSGLVPRGSH MTPQPSGAPT VQVTRETERS FPRASEDEVT CPTSAPPSPT RTRGNCAEAE EGGCRGAPRK LRARRGGRSR PKSELALSKQ RRSRRKKAND RERNRMHNLN SALDALRGVL PTFPDDAKLT KIETLRFAHN YIWALTQTLR IADHSLYALE PPAPHCGELG SPGGSPGDWG SLYSPVSQAG SLSPAASLEE RPGLLGATSS ACLSPGSLAF SDFL
Host	E Coli
Form/Format	Liquid. In 20mM Tris-HCl Buffer (pH 8.0) containing 10% glycerol, 0.4M urea
Purity/Purification	> 85% by SDS-PAGE
Concentration	0.25 mg/ml (determined by Bradford assay) (lot specific)
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.
Molecular Weight	25.1 kDa (234aa)
OMIM	AJ133776 Genomic DNA
Antigen Species	Human
Tag Information	His-tag
Product Categories/Family for NEuROG3 recombinant protein	Stem Cell
Applications Tested/Suitable for NEuROG3 recombinant protein	SDS-PAGE
Application Notes for NEuROG3 recombinant protein	This protein is denatured. Denatured protein is most likely not the best option for functional studies. Denatured protein is better suited for Western Blot (WB) or imaging assays. Applications are user determined.
Related Product Information for NEuROG3 recombinant protein	NEuROG3 is a basic helix-loop-helix (bHLH) transcription factor involved in neurogenesis. The protein likely acts as a heterodimer with another bHLH protein. Defects in this gene are a cause of congenital malabsorptive diarrhea 4 (DIAR4). Recombinant human NeuroG3 protein, fused to His-tag at N-terminus, was expressed in E Coli
Product References and Citations for NEuROG3 recombinant protein	Wang J., Cortina G. et al. (2006) N. Engl. J. Med. 355:270-280
Other Notes	Small volumes of NEuROG3 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for NEuROG3 purchase	MBS205727 is a recombinant protein targeting NEuROG3. Also known as NEuROG3, 1-214aa, Human, His tag, E Coli (Denatured). Host: E Coli.



SDS-Page of NEuROG3 recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NEuROG3. It may not necessarily be applicable to this product.

NCBI GI #	49901628
NCBI GeneID	50674
NCBI Accession #	AAH74938.1
UniProt Secondary Accession #	Q5VVI0; Q6DJX6; Q9BY24
UniProt Related Accession #	Q9Y4Z2
NCBI Official Full Name	Neurogenin 3
NCBI Official Synonym Full Names	neurogenin 3
NCBI Official Symbol	NEUROG3
NCBI Official Synonym Symbols	ngn3; Atoh5; NGN-3; Math4B; bHLHa7
UniProt Protein Name	Neurogenin-3
UniProt Synonym Protein Names	Class A basic helix-loop-helix protein 7; bHLHa7; Protein atonal homolog 5
Protein Family	Neurogenin
UniProt Gene Name	NEUROG3
UniProt Synonym Gene Names	ATOH5; BHLHA7; NGN3; NGN-3; bHLHa7
NCBI Protein Information	neurogenin-3
NCBI Summary for NEuROG3	The protein encoded by this gene is a basic helix-loop-helix (bHLH) transcription factor involved in neurogenesis. The encoded protein likely acts as a heterodimer with another bHLH protein. Defects in this gene are a cause of congenital malabsorptive diarrhea 4 (DIAR4).[provided by RefSeq, May 2010]
UniProt Comments for NEuROG3	Acts as a transcriptional regulator. Together with NKX2-2, initiates transcriptional activation of NEUROD1. Involved in neurogenesis. Also required for the specification of a common precursor of the 4 pancreatic endocrine cell types ().
Research Articles on NEuROG3	**1.** Sox9 and Ngn3, key transcription factors associated with pancreatic development.
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