Recombinant Human NEUROG3, His-tagged

Cat. No. NEUROG3-5002H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human NeuroG3 protein, fused to His-tag at N-terminus, was expressed in E.coli.
Species	Human
Source	E.coli
Description	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).
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.4M Urea
Molecular Mass	25.1 kDa (234aa)
AA 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
Purity	>85% by SDS - PAGE
Applications	SDS-PAGE

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Storage	Can be stored at +4centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20centigrade or -70centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.25 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	NEUROG3 neurogenin 3 [Homo sapiens]
Official Symbol	NEUROG3
Synonyms	NEUROG3; neurogenin 3; neurogenin-3; Atoh5; bHLHa7; Math4B; ngn3; protein atonal homolog 5; class A basic helix-loop-helix protein 7; NGN-3;
Gene ID	50674
mRNA Refseq	NM_020999
Protein Refseq	NP_066279
MIM	604882
UniProt ID	Q9Y4Z2
Chromosome Location	10q21.3
Pathway	Developmental Biology, organism-specific biosystem; Maturity onset diabetes of the young, organism-specific biosystem; Maturity onset diabetes of the young, conserved biosystem; Notch-mediated HES/HEY network, organism-specific biosystem;

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	Regulation of beta-cell development, organism-specific biosystem; Regulation of gene expression in endocrine-committed (NEUROG3+) progenitor cells, organism-specific biosystem; Regulation of gene expression in late stage (branching morphogenesis) pancreatic bud precursor cells, organism-specific biosystem;
Function	DNA binding; double-stranded DNA binding; transcription coactivator activity;

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