

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 SGLVPRGSH MTPQPSGAPT VQVTRETERS FPRASEDEVT CPTSAPPSPT RTRGNCAEAE EGGCRGAPRK LRARRGGRSR PKSELALSKQ RRSRRKKAND RERNRMHNLN SALDALRGVL PTFPDDAKLT KIETLRFAHN YIWALTQTLR IADHSLYALE PPAPHCHELG 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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