## **PRODUCT INFORMATION**

**Expression system** E.coli

**Domain** 1-214aa

**UniProt No.** Q9Y4Z2

NCBI Accession No. AAH74938.1

Alternative Names Neurogenin 3, Atoh5, bHLHa7, Math4B, ngn3

# **PRODUCT SPECIFICATION**

Molecular Weight 25.1 kDa (234aa)

**Concentration** 0.25mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.4M urea

Purity

> 85% by SDS-PAGE

Tag His-Tag

Application SDS-PAGE,Denatured

### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

### 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). Recombinant human NeuroG3 protein, fused to His-tag at N-terminus, was expressed in E. coli

### **Amino acid 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

### **General References**

Wang J., Cortina G. et al. (2006) N. Engl. J. Med. 355:270-280

