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## DATASHEET

### Recombinant human Neurogenin-3 protein

#### Product overview

<b>Name</b>	Recombinant human Neurogenin-3 protein
<b>Cat No</b>	HB9047
<b>Biological description</b>	The Neurogenin-3 transcription factor is implicated in the control of dendrite morphology and synaptic plasticity of cultured hippocampal neurons.
<b>Species of origin</b>	human
<b>Alternative names</b>	Recombinant Human Neurogenin 3, Neurogenin 3, Class A Basic Helix-Loop-Helix Protein 7, Protein Atonal Homolog 5, BHLHA7, Math4B, NGN3, Atoh5.
<b>Purity</b>	>85%
<b>Description</b>	Transcription factor that is involved in neurogenesis

#### Solubility & Handling

<b>Storage instructions</b>	-20 °C
<b>Handling</b>	<ul style="list-style-type: none"><li>Solutions should be made in sterile deionized water (not less than 100 µg/ml). This solution can then be further diluted with other aqueous solutions.</li><li>Following reconstitution, solutions may be stored at 4 °C and are useable for around 2-7 days and for future use store at -18 °C.</li><li>For long term storage, a carrier protein (0.1% HSA or BSA) should be added to stock solutions. Solutions should be aliquoted into tightly sealed vials for storage at -20 °C. Freeze-thaw cycles should be prevented.</li></ul>
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

#### Chemical Data

<b>UniProt ID</b>	Q9Y4Z2
<b>Molecular Weight</b>	25.1
<b>Sequence (one letter)</b>	MGSSHHHHHH SSGLVPRGSH MTPQPSGAPT VQVTRETERS FPRASEDEVT CPTSAPPSPT RTRGNCAEAE EGGCRGAPRK LRARRGGRSR PKSELALSKQ RRSRRKKAND RERNRMHNLN SALDALRGVL PTFPDDAKLT KIETLRFAHN YIWALTQTLR IADHSLYALE PPAPHCGELG SPGSGPDWG SLYSPVSQAG SLSPAASLEE RPGLLGATSS ACLSPGSLAF SD
<b>Source</b>	E. Coli.
<b>Appearance</b>	Clear solution (sterile filtered)
<b>Formulation</b>	Solution (0.25mg/ml) containing Tris-HCl buffer (20mM, pH 8.0), 0.4M Urea and 10% glycerol

#### References

##### Neurogenin 3 Expressing Cells in the Human Exocrine Pancreas Have the Capacity for Endocrine Cell Fate

Gomez DL *et al* (2015) PLoS One 10(8)

**PubMedID** [26288179](#)

Neurogenin 3-expressing progenitor cells in the gastrointestinal tract differentiate into both endocrine and non-endocrine

## cell types

Schonhoff SE *et al* (2004) Dev Biol 270(2)

**PubMedID** [15183725](#)

## Neurogenin 3 cellular and subcellular localization in the developing and adult hippocampus

Simon-Arecas J *et al* (2010) J Comp Neurol 518(10)

**PubMedID** [20235092](#)

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