Recombinant Human NEUROD1 protein, T7/His-tagged

Cat. No. NEUROD1-224H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human NeuroD1 (355aa) fused with T7-His-TEV cleavage site Tag at N-terminal and 11 arginine (11R tag) at its C-terminal was expressed in E. coli.
Species	Human
Source	E.coli
Form	1.0 mg/ml, sterile-filtered, in 20 mM pH 8.0 Tris-HCl Buffer, with proprietary formulation of NaCl, KCl, EDTA, Sucrose and DTT.
AA Sequence	29aa_Tag_TKSYSESGLMGEPQPQGPPSWTDECLSSQDEEHEADKKEDDLEAMNA EEDSLRNGGEEEDEDEDLE EEEEEEEEDDDQKPKRRGPKKKKMTKARLERFKLRR MKANARERNRMHGLNAALDNLRKVVPCYSKTQKLSKIET LRLAKNYIWALSEILRSG KSPDLVSFVQTLCKGLSQPTTNLVAGCLQLNPRTFLPEQNQDMPPHLPTASASFPV H PYSYQSPGLPSPPYGTMDSSHVFHVKPPPHAYSAALEPFFESPLTDCTSPSFDGP LSPPLSINGNFSFKHEPSAE FEKNYAFTMHYPAATLAGAQSHGSIFSGTAAPRCEIPI DNIMSFDSHSHHERVMSAQLNAIFHDLEESGGGGSPG RRRRRRRRRRR
Purity	>90% by SDS-PAGE.
Applications	1. May be used for in vitro NeuroD1 mediated gene transcription regulation study for neuronal cell differentiation by intracellular delivery of this protein2. May be used for mapping NeuroD1 protein-protein interaction.3. May be used as specific substrate protein for kinase, and ubiquitin (Sumo pathway) related enzyme functional screening assays.4. As Immunogen for specific antibody development.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Storage	Keep at -80°C for long term storage. Product is stable at 4 °C for at least 7 days.

GENE INFORMATION

Gene Name	NEUROD1 neuronal differentiation 1 [Homo sapiens]
Official Symbol	NEUROD1
Synonyms	NEUROD1; neuronal differentiation 1; NEUROD, neurogenic differentiation 1; beta cell E box transactivator 2; BETA2; BHF 1; bHLHa3; MODY6; NeuroD;BHF-1; NEUROD;
Gene ID	4760
mRNA Refseq	NM_002500
Protein Refseq	NP_002491
MIM	601724
UniProt ID	Q13562
Chromosome Location	2q32
Pathway	Developmental Biology, organism-specific biosystem; Maturity onset diabetes of the young, organism-specific biosystem; Maturity onset diabetes of the young, conserved biosystem; Regulation of beta-cell development, organism-specific biosystem; Regulation of gene expression in beta cells, organism-specific biosystem; Regulation of gene expression in endocrine-committed (NEUROG3+) progenitor cells, organism-specific biosystem;

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Function	E-box binding; RNA polymerase II activating transcription factor binding; RNA polymerase II transcription coactivator activity; chromatin binding; double-stranded DNA binding; protein binding; protein heterodimerization activity; protein heterodimerization activity; contributes_to sequence-specific DNA binding;

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