

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	<p>29aa_Tag_TKSYSEGLMGEPQPQGPPSWTDECLSSQDEEHEADKKEDDLEAMNA EEDSLRNGGEEDEDEDLE EEEEEEEEDDDQKPKRRGPKKKKMTKARLERFKLRR MKANARERNRMHGLNAALDNLKVVPCYSKTQKLSKIET LRLAKNYIWALSEILRSG KSPDLVSFVQTLCKGLSQPTTNLVAGCLQLNPRFTLPEQNQDMPPHLPTASASFPV H PYSYQSPGLPSPPYGTMDSSHVFHVKPPPHAYSAALEPFESPLTDCTSPSFDGP LSPPLSINGNFSFKHEPSAE FEKNYAFTMHYPAATLAGAQSHGSIFSGTAAPRCEIPI DNIMSFDSHSHHERVMSAQLNAIFHDLEESGGGGSPG RRRRRRRRRRRR</p>
Purity	>90% by SDS-PAGE.
Applications	<p>1. May be used for in vitro NeuroD1 mediated gene transcription regulation study for neuronal cell differentiation by intracellular delivery of this protein 2. 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.</p>

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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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