

Recombinant Human MYOD1

Cat. No. MYOD1-28655TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 211-320 of Human MyoD1 with an N terminal proprietary tag; Predicted MWt 37.73 kDa inclusive of tag.
Species	Human
Source	Wheat Germ
ProteinLength	110 amino acids
Description	This gene encodes a nuclear protein that belongs to the basic helix-loop-helix family of transcription factors and the myogenic factors subfamily. It regulates muscle cell differentiation by inducing cell cycle arrest, a prerequisite for myogenic initiation. The protein is also involved in muscle regeneration. It activates its own transcription which may stabilize commitment to myogenesis.
Molecular Weight	37.730kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

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Sequences of amino acids	MDYSGPPSGARRRNCYEGAYYNEAPSEPRPGKSAAVSSLD CLSSIVERISTESPAA PALLLADVPSSEPPRRQEAAAP SEGESSGDPTQSPDAAPQCPAGANPNPIYQVL
Sequence Similarities	Contains 1 basic helix-loop-helix (bHLH) domain.
GENE INFORMATION	
Gene Name	MYOD1 myogenic differentiation 1 [Homo sapiens]
Official Symbol	MYOD1
Synonyms	MYOD1; myogenic differentiation 1; MYF3, myogenic factor 3; myoblast determination protein 1; bHLHc1; MYOD; PUM;
Gene ID	4654
mRNA Refseq	NM_002478
Protein Refseq	NP_002469
MIM	159970
Uniprot ID	P15172
Chromosome Location	11p15
Pathway	C-MYB transcription factor network, organism-specific biosystem; CDO in myogenesis, organism-specific biosystem; Developmental Biology, organism-specific biosystem; Id Signaling Pathway, organism-specific biosystem; Myogenesis, organism-specific biosystem;

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Function

DNA binding; E-box binding; protein binding; protein heterodimerization activity;
sequence-specific DNA binding transcription factor activity;

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