

## Recombinant Human MYOD1 Protein, His-tagged

Cat. No. MYOD1-2474H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human MYOD1 Protein (DYKDDDDK+Met1-Leu320) with a N-His tag was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	DYKDDDDK+Met1-Leu320
<b>Description</b>	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.
<b>Form</b>	Freeze-dried powder
<b>Molecular Mass</b>	Predicted Molecular Mass: 38.2 kDa
<b>Endotoxin</b>	<1.0 EU per 1g (determined by the LAL method).
<b>Purity</b>	> 90%
<b>Applications</b>	Positive Control; Immunogen; SDS-PAGE; WB.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Stability</b>	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
<b>Storage Buffer</b>	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
<b>Reconstitution</b>	Reconstitute in PBS or others.

## GENE INFORMATION

<b>Gene Name</b>	MYOD1 myogenic differentiation 1 [ Homo sapiens (human) ]
<b>Official Symbol</b>	MYOD1
<b>Synonyms</b>	MYOD1; myogenic differentiation 1; MYF3, myogenic factor 3; myoblast determination protein 1; bHLHc1; MYOD; PUM; myf-3; myogenic factor 3; class C basic helix-loop-helix protein 1; MYF3;
<b>Gene ID</b>	4654
<b>mRNA Refseq</b>	NM_002478
<b>Protein Refseq</b>	NP_002469
<b>MIM</b>	159970
<b>UniProt ID</b>	P15172

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