

Recombinant Human MYOD1 Protein, His-tagged

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

SPECIFICATION

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

 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

Stability	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.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	MYOD1 myogenic differentiation 1 [Homo sapiens (human)]
Official Symbol	MYOD1
Synonyms	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;
Gene ID	4654
mRNA Refseq	NM_002478
Protein Refseq	NP_002469
MIM	159970
UniProt ID	P15172

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