

Myogenic Differentiation (MyoD) Recombinant Protein | MyoD recombinant protein

Recombinant Myogenic Differentiation (MyoD)

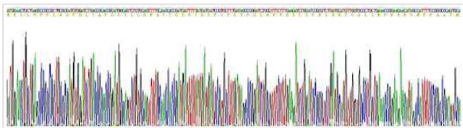
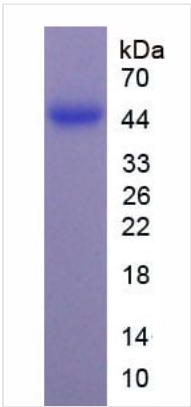
CATALOG # AAA149285	HOST E.coli	REACTIVITY Homo sapiens (Human)	APPLICATIONS Western Blot, SDS-Page
-------------------------------	-----------------------	---	---

PRODUCT SYNONYMS

Myogenic Differentiation (MyoD); Recombinant Myogenic Differentiation (MyoD); MYOD1; PUM; MYF3; bHLHc1; Myoblast Determination Protein 1; Myogenic Factor 3; Class C basic helix-loop-helix protein 1; MyoD recombinant protein

PRODUCT SPECIFICATIONS

Host	E.coli
Reactivity	Homo sapiens (Human)
Purity/Purification	> 95%
Form/Format	PBS, pH7.4, containing 0.01% SKL, 5% Trehalose .
Concentration	Original Concentration: 250ug/mL (varies by lot)
Applicable Applications for MyoD recombinant protein	WB (Western Blot), SDS-PAGE, Immunogen, Positive Control
Source	Prokaryotic expression
Residues	Met1~Leu320
Tags	N-terminal His Tag
Subcellular Location	Nucleus
Traits	Freeze-dried powder
Predicted isoelectric point	5.6
Phenomenon explanation	The possible reasons that the actual band size differs from the predicted are as follows: 1. Splice variants: Alternative splicing may create different sized proteins from the same gene. 2. Relative charge: The composition of amino acids may affects the charge of the protein. 3. Post-translational modification: Phosphorylation, glycosylation, methylation etc. 4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form. 5. Polymerization of the target protein: Dimerization, multimerization etc.
Usage	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Storage: Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Stability Test: 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 degree C 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.



Gene Sequence
Gene Sequencing (extract)

SDS-PAGE

MELLSPPLRD VDLTAPDGS L CSFATTD D FY DDP CFDS PDL RFFEDLPRL
MHVGALLKPE EHS HFPA AVH PAPGAREDEH VRAPSGHHQA GRCLLWACKA
CKRKT TNADR RKAATMRERR RLSKVNEAFE TLKRCTSSNP NQRLPKVEIL
RNAIRYIEGL QALLRDQDAA PPGAAAFYA PGPLPPGRGG EHYSGDSDAS
SPRSNCSDGM MDYSGPPSGA RRRNCYEGAY YNEAPSEPRP GKSAAVSSLD
CLSSIVERIS TESPAAPALL LADVPSESPP RRQEAAAPSE GESSGDPTQS
PDAAPQCPAG ANPNPIYQVL

Sequence

NCBI AND UNIPROT INFORMATION

NCBI GI #	23111009
NCBI GeneID	4654
NCBI Accession #	NP_002469.2
NCBI GenBank Nucleotide #	NM_002478.5
UniProt Accession #	P15172
Molecular Weight	Predicted Molecular Mass: 38.2kDa Accurate Molecular Mass: 45kDa as determined by SDS-PAGE reducing conditions.
NCBI Official Full Name	myoblast determination protein 1
NCBI Official Synonym Full Names	myogenic differentiation 1
NCBI Official Symbol	MYOD1
NCBI Official Synonym Symbols	PUM; MYF3; MYOD; bHLHc1
NCBI Protein Information	myoblast determination protein 1
UniProt Protein Name	Myoblast determination protein 1
UniProt Gene Name	MYOD1
UniProt Synonym Gene Names	BHLHC1; MYF3; MYOD; bHLHc1; Myf-3
UniProt Entry Name	MYOD1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.