

Recombinant Human MYOG

Cat. No. MYOG-30274TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Myogenin with N terminal proprietary tag, 50.75kDa.
Species	Human
Source	Wheat Germ
ProteinLength	224 amino acids
Description	Myogenin is a muscle-specific transcription factor that can induce myogenesis in a variety of cell types in tissue culture. It is a member of a large family of proteins related by sequence homology, the helix-loop-helix (HLH) proteins. It is essential for the development of functional skeletal muscle.
Molecular Weight	50.750kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino	MELYETSPYFYQEPRFYDGENYLPVHLQGFEPGGYERTEL TLSPEAPGPLEDKGLG

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acids TPEHCPGQCLPWACKVCKRKS SVS V DRRRAATLREKRRLKKVNEAFEALKRSTLLN
 PNQRLPKVE ILRSAIQYIERLQALLSSLNQEERDLRYRGGGGPQPGVPS ECSSHSA
 SCSPEWGSALFESANPGDHLTADPTDAHNLHS LTSIVDSITVEDVSVAFPDETMPN

Sequence
Similarities Contains 1 basic helix-loop-helix (bHLH) domain.

GENE INFORMATION

Gene Name [MYOG myogenin \(myogenic factor 4\) \[Homo sapiens \]](#)

Official Symbol [MYOG](#)

Synonyms MYOG; myogenin (myogenic factor 4); MYF4; myogenin; bHLHc3;

Gene ID [4656](#)

mRNA Refseq [NM_002479](#)

Protein Refseq [NP_002470](#)

MIM [159980](#)

Uniprot ID [P15173](#)

Chromosome Location 1q31-q41

Pathway CDO in myogenesis, organism-specific biosystem; Developmental Biology, organism-specific biosystem; Hypertrophy Model, organism-specific biosystem; Id Signaling Pathway, organism-specific biosystem; Myogenesis, organism-specific biosystem;

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Function

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

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