

Recombinant Active Human c-Myc Protein (1-454)

Cat. No. MYC-32H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant active human c-Myc protein (1-454) without tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-454
Description	This gene is a proto-oncogene and encodes a nuclear phosphoprotein that plays a role in cell cycle progression, apoptosis and cellular transformation. The encoded protein forms a heterodimer with the related transcription factor MAX. This complex binds to the E box DNA consensus sequence and regulates the transcription of specific target genes. Amplification of this gene is frequently observed in numerous human cancers. Translocations involving this gene are associated with Burkitt lymphoma and multiple myeloma in human patients. There is evidence to show that translation initiates both from an upstream, in-frame non-AUG (CUG) and a downstream AUG start site, resulting in the production of two isoforms with distinct N-termini.
Form	Liquid
Bio-activity	Reprogramming mouse fibroblast cell to iPS cells using 3 retroviral vectors, which carry Oct4, Sox2 & Klf4 with this protein as replacement assay. 8 µg/mL of human Klf4-11R were added in reprogramming medium every 48 hours for 20 days.

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Intracellular protein penetration rate was tested using DyLight labeled c-Myc protein at 1 µg/mL for 30 min incubation for human fibroblast cells at 37 centigrade. More than 90% cell will be positive one hour after sample incubation.

Molecular Mass 53 kDa

AA Sequence

MDFFRVVENQQPPATMPLNVSFTNRNYDLDYDSVQPYFYCDEEENFYQQQQQSEL
QPPAPSEDIWKKFELLPTPPLSPSRRSGLCSPSYVAVTPFSLRGDNDGGGGSFSTA
DQLEMVTELLGGDMVNQSFICDPDETFIKNIIIQDCMWSGFSAAAKLVSEKLASYQA
ARKDSGSPNPARGHSVCSTSSLYLQDLSAAASECIDPSVVFYPLNDSSSPKSCAS
QDSSAFSPSSDLSSTESSPQGSPEPLVLHEETPPTTSSDSEEEQEDEEIDVVS
EKRQAPGKRSESGSPSAGGHSPHSPVLKRCHVSTHQHNYAAPPSTRKDYPAA
KRVKLDVSRVLRQISNNRKCTSPRSSDTEENVKRRTHNVLERQRRNELKRSFFALR
DQIPELENNEKAPKVVLKKATAYILSVQAEQKLISEEDLLRKRREQLKHKLEQLRNS
CAESGGGGSPGRRRRRRRRRRR

Endotoxin 5 Eu/µg

Purity >93% by SDS-PAGE

Applications WB, Functional Studies, SDS-PAGE, MS

Storage

Shipped at 4 centigrade. Upon delivery aliquot and store at -20 or -80 centigrade.
Avoid repeated freeze/thaw cycles.
pH: 7.50
Constituent: 0.24% Tris

GENE INFORMATION

Gene Name MYC v-myc myelocytomatosis viral oncogene homolog (avian) [Homo sapiens

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	(human)]
Official Symbol	MYC
Synonyms	MYC; v-myc myelocytomatosis viral oncogene homolog (avian); v myc avian myelocytomatosis viral oncogene homolog; myc proto-oncogene protein; bHLHe39; c Myc; proto-oncogene c-Myc; transcription factor p64; class E basic helix-loop-helix protein 39; avian myelocytomatosis viral oncogene homolog; v-myc avian myelocytomatosis viral oncogene homolog; myc-related translation/localization regulatory factor; MRTL; c-Myc
Gene ID	4609
mRNA Refseq	NM_002467
Protein Refseq	NP_002458
MIM	190080
UniProt ID	P01106