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

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

## SPECIFICATION

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| **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 DQLEMVTELLGGDMVNQSFICDPDDETFIKNIIIQDCMWSGFSAAAKLVSEKLASYQA ARKDSGSPNPARGHSVCSTSSLYLQDLSAAASECIDPSVVFPYPLNDSSSPKSCAS QDSSAFSPSSDSLLSSTESSPQGSPEPLVLHEETPPTTSSDSEEEQEDEEEIDVVSV EKRQAPGKRSESGSPSAGGHSKPPHSPLVLKRCHVSTHQHNYAAPPSTRKDYPAA KRVKLDSVRVLRQISNNRKCTSPRSSDTEENVKRRTHNVLERQRRNELKRSFFALR DQIPELENNEKAPKVVILKKATAYILSVQAEEQKLISEEDLLRKRREQLKHKLEQLRNS 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.<br>pH: 7.50<br>Constituent: 0.24% Tris |

## GENE INFORMATION

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| **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 |

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