

Active Recombinant Human MYC protein, arginine-tagged

Cat. No. MYC-79H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human wild-type cMyc cDNA (454 aa) fused with flexible linker domain & eleven arginine (11R Tag) at C-terminal was expressed in E. coli.
Species	Human
Source	E.coli
Form	0.50 mg/ml in sterile-filtered solution in 20 mM Tris, pH 7.5. Proprietary formulation of NaCl , KCl, CaCl ₂ , MgCl ₂ , arginine, DTT, and glycerol.
Bio-activity	Cellular Toxicity: This recombinant protein was tested on mouse embryonic stem cells up to 50 µg/ml in culture medium. Suggested reprogramming protein concentration is between 0.5 to 8 µg / ml for both human and mouse fibroblast cells applications. Biolog
AA Sequence	MDFFRVVENQQPPATMPLNVSTNRNYDLDYDSVQPYFYCDEEENFYQQQQQSEL QPPAPSEDIWKKFELLPTTP LSPSRRSGLCSPSYVAVTPFSLRGDNDGGGGSFSTA DQLEMVTELLGGDMVNQSFICDPDDETFIKNIIIQDCMW SGFSAAAKLVSEKLASYQ AARKDSGSPNPARGHSVCSTSSLYLQDLSAAASECIDPSVVPYPLNDSSSPKSCA S QDSSAFSPSSDILLSSTESSPQGSPEPLVLHEETPPTTSSDSEEEQEDEEIDVVS VEKRQAPGKRSESGSPSAG GHSKPPHSPLVLKRCHVSTHQHNYAAPPSTRKDYP AKRVKLDSVRVLRQISNNRKCTSPRSSDTEENVKRRTN VLERQRRNELKRSFFAL RDQIPELENNEKAPKVVLKATAYILSVQAEQKLISEEDLLRKRREQLKHKLEQLR NSCAESGGGGSPGRRRRRRRRRRR

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Purity	>93% by SDS-PAGE
Applications	1. May be used for in vitro human cMyc mediated iPS generation mechanism, or its gene specific transcription regulation study with intracellular delivery of this protein.2. May be used as specific substrate protein for kinase and ubiquitin (Sumo pathway) related enzyme functional screening assays.3. May be used for cMyc protein-protein interaction mapping.4. May be used for specific antibody production.
Storage	Recombinant Human c-Myc-11R is stable for six months at -20centigrade to -80centigrade. Store thawed tube at 4centigrade for seven days. Multiple freeze/thaw cycles may result in significant loss of activity.
GENE INFORMATION	
Gene Name	MYC v-myc myelocytomatosis viral oncogene homolog (avian) [Homo sapiens]
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 m
Gene ID	4609
mRNA Refseq	NM_002467
Protein Refseq	NP_002458
MIM	190080

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UniProt ID	P01106
Chromosome Location	8q24
Pathway	Acute myeloid leukemia, organism-specific biosystem; Acute myeloid leukemia, conserved biosystem; Apoptosis, organism-specific biosystem; Bladder cancer, organism-specific biosystem; Bladder cancer, conserved biosystem
Function	DNA binding; DNA binding; E-box binding; protein binding; protein complex binding; repressing transcription factor binding; sequence-specific DNA binding transcription factor activity; transcription factor binding;

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