

Recombinant Human MYC protein, 11R-tagged

Cat. No. MYC-3627H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human wild-type cMyc cDNA (454 aa) was constructed with flexible linker domain & eleven arginine (11R Tag) as membrane penetration domain at the C terminus, was expressed in E. coli. The protein identity was confirmed by both MS mapping and western blot analysis. The in vitro function was tested using specific DNA binding assays.
Species	Human
Source	E.coli
Description	The protein encoded by human cMyc gene is a multifunctional, nuclear phosphoprotein that plays a role in cell cycle progression, apoptosis and cellular transformation. It functions as a transcription factor that regulates transcription of specific target genes. Mutations, over-expression, rearrangement and translocation of this gene have been associated with a variety of hematopoietic tumors, leukemias and lymphomas, including Burkitt lymphoma.
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.
AA Sequence	MDFFRVVENQQPPATMPLNVSTNRNYDLDYDSVQPYFYCDEEENFYQQQQQSEL QPPAPSEDIWKKFELLPTPPLSPSRRSGLCSPSYVAVTPFSLRGDNDGGGGSFSTA DQLEMVTELLGGDMVNQSFICDPDDETFIKNIIIQDCMWSGFSAAAKLVSEKLASYQA ARKDSGSPNPARGHSVCSTSSLYLQDLSAAASECIDPSVVPYPLNDSSSPKSCAS

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QDSSAFSPSSDSLLSSTESSPQGSPEPLVLHEETPPTTSSDSEEEQEDEEEIDVVSVEKRQAPGKRSESGSPSAGGHSKPPHSPLVLKRCHVSTHQHNYAAPPSTRKDYPAAKRVKLDSVRVLRQISNNRKCTSPRSSDTEENVKRRTHNVLERQRRNELKRSFFALRDQIPELENNEKAPKVVLKKATAYILSVQAEEQKLISEEDLLRKRREQLKHKLEQLRNSCAESGGGGSPGRRRRRRRRRRRR

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 -20 centigrade to -80 centigrade. Store thawed tube at 4 centigrade 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 myelocytomatosis viral oncogene homolog; v-myc avian myelocytomatosis viral oncogene homolog; myc-related translation/localization

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	regulatory factor; MRTL; c-Myc;
Gene ID	4609
mRNA Refseq	NM_002467
Protein Refseq	NP_002458
MIM	190080
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; C-MYB transcription factor network, organism-specific biosystem; C-MYC pathway, organism-specific 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;