

Recombinant Human MYC, Arg-tagged

Cat. No. MYC-39H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Myc Human Recombinant produced in E.Coli is a single, non-glycosylated, Polypeptide chain containing 439 amino acids and having a molecular mass of 48.8kDa. The Myc is fused to a C-terminal poly-arginine tag and purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
ProteinLength	439 a.a.
Description	The protein encoded by this 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, overexpression, rearrangement and translocation of this gene have been associated with a variety of hematopoietic tumors, leukemias and lymphomas, including Burkitt lymphoma. There is evidence to show that alternative translation initiations from an upstream, in-frame non-AUG (CUG) and a downstream AUG start site result in the production of two isoforms with distinct N-termini. The synthesis of non-AUG initiated protein is suppressed in Burkitt's lymphomas, suggesting its importance in the normal function of this gene.
Form	Sterile Filtered White lyophilized (freeze-dried) powder. Myc was lyophilized after extensive dialysis against PBS.

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Molecular Mass	48.8 kDa
AA Sequence	The sequence of the first five N-terminal amino acids was determined and was found to be Met-Pro-Leu-Asn-Val.
Purity	Greater than 95.0% as determined by SEC-HPLC and SDS-PAGE.
Stability	Lyophilized Myc although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Myc should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.
Reconstitution	It is recommended to reconstitute the lyophilized Myc in sterile PBS not less than 100g/ml, which can then be further diluted to other aqueous solutions.

GENE INFORMATION

Gene Name	MYC v-myc myelocytomatosis viral oncogene homolog (avian) [Homo sapiens]
Official Symbol	MYC
Synonyms	MYC; MRTL; c-Myc; bHLHe39; myc proto-oncogene protein; OTTHUMP00000158589; OTTHUMP0000022- 7763; 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; Proto-oncogene c-Myc; Transcription factor p64; Class E basic helix-loop-helix protein 39
Gene ID	4609
mRNA Refseq	NM_002467

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Protein Refseq	NP_002458
MIM	190080
UniProt ID	P01106
Chromosome Location	8q24.21
Pathway	Acute myeloid leukemia; C-MYC pathway; Constitutive Signaling by NOTCH1 HD+PEST Domain Mutants
Function	DNA binding; E-box binding; protein binding; sequence-specific DNA binding transcription factor activity

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