

Recombinant Human MYC, His-tagged

Cat. No. MYC-38H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MYC (Pro2-Ala439), fused with N-terminal 6x histidine tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	2-439 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	Lyophilized powder. Lyophilized from a 0.2 µ filtered solution in PBS.
Molecular Mass	51 kDa
Endotoxin	Not determined

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Purity	>85%
Applications	ELISA, EIA, Western Blotting, Dot Blotting, Immunoprecipitation, Protein Array, Functional Assay, etc.
Storage	Upon arrival, the lyophilized protein may be stored for 2 weeks at 4°C. For long term storage, it is recommended to store desiccated below -20°C in a manual defrost freezer. Following reconstitution, the protein may be stored for 2 weeks under sterile conditions at -20°C. For long term storage, it is recommended to make appropriate aliquots and store at -80°C. Avoid repeated freeze-thaw cycles.
Preservative	None
Reconstitution	Briefly spin the vial and bring the contents to the bottom prior to opening. It is recommended to reconstitute at 0.5~1.17 mg/mL with sterile deionized water.
Shipping	Upon arrival, the lyophilized products may be stored for 2 weeks at 4 °C. For long term storage, it is recommended to be stored desiccated below -20 °C in a manual defrost freezer. Following reconstitution, the protein may be stored for 2 weeks under sterile conditions at 4 °C. For long term storage, it is recommended to add a carrier protein (0.1% HSA or BSA) and store at -20 °C or -80 °C in appropriate aliquots. Avoid repeated freeze-thaw cycles.

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;

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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
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