Active Recombinant Full Length Human MYC Protein, C-Flag-tagged

Cat. No. MYC-757HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human MYC Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	ELISA binding assay EMSA assay ELISA capture for autoantibodies

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Molecular Mass	50.4 kDa
AA Sequence	LDFFRVVENQQPPATMPLNVSFTNRNYDLDYDSVQPYFYCDEEENFYQQQQQSEL QPPAPSEDIWKKFEL LPTPPLSPSRRSGLCSPSYVAVTPFSLRGDNDGGGGSFSTA DQLEMVTELLGGDMVNQSFICDPDDETFI KNIIIQDCMWSGFSAAAKLVSEKLASYQ AARKDSGSPNPARGHSVCSTSSLYLQDLSAAASECIDPSVVF PYPLNDSSSPKSCA SQDSSAFSPSSDSLLSSTESSPQGSPEPLVLHEETPPTTSSDSEEEQEDEEEIDVV S VEKRQAPGKRSESGSPSAGGHSKPPHSPLVLKRCHVSTHQHNYAAPPSTRKDYPA AKRVKLDSVRVLRQ ISNNRKCTSPRSSDTEENVKRRTHNVLERQRRNELKRSFFAL RDQIPELENNEKAPKVVILKKATAYILS VQAEEQKLISEEDLLRKRREQLKHKLEQLRNSCATRTRPLEQKLISEEDLAANDILDY KDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Embryonic stem cells, Induced pluripotent stem cells, Stem cell - Pluripotency, Stem cell relevant signaling - JAK/STAT signaling pathway, Stem cell relevant signaling - TGFb/BMP signaling pathway, Stem cell relevant signaling - Wnt Signaling pathway, Transcription Factors

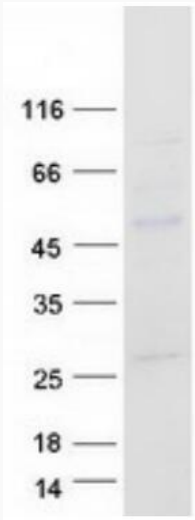
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Protein Pathways	Acute myeloid leukemia, Bladder cancer, Cell cycle, Chronic myeloid leukemia, Colorectal cancer, Endometrial cancer, ErbB signaling pathway, Jak-STAT signaling pathway, MAPK signaling pathway, Pathways in cancer, Small cell lung cancer, TGF-beta signaling pathway, Thyroid cancer, Wnt signaling pathway
Full Length	Full L.

GENE INFORMATION

Gene Name	MYC MYC proto-oncogene, bHLH transcription factor [Homo sapiens (human)]
Official Symbol	MYC
Synonyms	MRTL; MYCC; c-Myc; bHLHe39
Gene ID	4609
mRNA Refseq	NM_002467.6
Protein Refseq	NP_002458.2
MIM	190080
UniProt ID	P01106

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Coomassie blue staining of purified MYC protein.

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