

Recombinant Human MYC protein, His & GST-tagged

Cat. No. MYC-574H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MYC (P01106) aa. (Ser184~Ala454) fused with His & GST tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Ser184~Ala454
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	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 60.2kDa; Accurate Molecular Mass: 65kDa as determined by SDS-PAGE reducing conditions.

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Purity	>98%
Characteristic	Isoelectric point is 6.6.
Applications	Cell culture; Activity Assays; In vivo assays.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex

GENE INFORMATION

Gene Name	MYC MYC proto-oncogene, bHLH transcription factor [Homo sapiens (human)]
Official Symbol	MYC
Synonyms	MYC; MYC proto-oncogene, bHLH transcription factor; MRTL; MYCC; c-Myc; bHLHe39; myc proto-oncogene protein; avian myelocytomatosis viral oncogene homolog; class E basic helix-loop-helix protein 39; myc-related translation/localization regulatory factor; proto-oncogene c-Myc; transcription factor p64; v-myc avian myelocytomatosis viral oncogene homolog; v-myc myelocytomatosis viral oncogene

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homolog

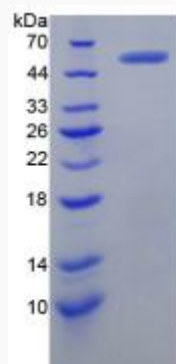
Gene ID 4609

mRNA Refseq NM_002467.4

Protein Refseq NP_002458.2

UniProt ID P01106

SDS-PAGE



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