
Product Data Sheet

Product Name: c-Myc tag Peptide

Cat. No.: GP10151

Chemical Properties

Cas. No.

Chemical Name c-Myc Peptide

SMILES N[C@@H](CCC(O)=O)C(N[C@@H](CCC(N)=O)C(N[C@@H](CCCCN)C(N[C@@H](CC(C)C)C(N[C@@H]([C@H](C)CC)C(N[C@@H](CO)C(N[C@@H](CCC(O)=O)C(N[C@@H](CCC(O)=O)C(N[C@@H](CC(O)=O)C(N[C@@H](CC(C)C)C(O)=O)=O)=O)=O)=O)=O)=O)=O)=O)=O

Formula C₅₁H₈₆N₁₂O₂₁

M.Wt 1203.3

Solubility ≥ 60.165mg/mL in DMSO, ≥ 15.7 mg/mL in Water with ultrasonic

Storage Desiccate at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

c-Myc Peptide is a useful displacement of c-Myc-tagged fusion proteins bound to anti-c-Myc antibodies in immunoassays. The successful inhibition of antibody binding by c-Myc peptide demonstrates binding is specific. c-Myc peptide participates in regulation of growth-related gene transcription.

The c-Myc Peptide is a synthetic peptide with an amino acid sequence that corresponds to the amino acids 410-419 of the C-terminal of human c-myc. Myc (c-Myc) is a regulator gene that codes for a transcription factor. c-Myc activation results in numerous biological effects. The first to be discovered was its capability to drive cell proliferation (upregulates cyclins, downregulates p21), but it also plays a very important role in regulating cell growth (upregulates ribosomal RNA and proteins), apoptosis

Caution: Product has not been fully validated for medical applications. For research use only.

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(downregulates Bcl-2), differentiation and stem cell self-renewal. C-Myc is a very strong proto-oncogene and it is very often found to be upregulated in many types of cancers. c-Myc overexpression stimulates gene amplification, [1] presumably through DNA over-replication.

References:

1. Denis N, Kitzis A, Kruh J, Dautry F, Corcos D (August 1991). "Stimulation of methotrexate resistance and dihydrofolate reductase gene amplification by c-myc". *Oncogene* 6 (8): 1453-7.

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