

C3 Peptide P16

Cat. No.:	HY-P3602
CAS No.:	99027-06-2
Molecular Formula:	C ₈₆ H ₁₃₁ N ₂₅ O ₂₇
Molecular Weight:	1947.12
Sequence Shortening:	KNRWEDPGKQLYNVEA
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	C3 Peptide P16, is a 16 amino acid synthetic peptide derived from human C3d, a fragment generated in trypsin-cleaved C3. C3 Peptide P16 enhances in vitro phosphorylation of pp105 and pp100, a cellular component presenting in the human B lymphoma cells ^{[1][2]} .
In Vitro	<p>C3 Peptide P16 (7.4 μM; 18 h) triggers in vitro and in vivo phosphorylations and in vitro proliferation of human B lymphocytes, depending on the stage of cell differentiation^[1].</p> <p>C3 Peptide P16 (7 nM; 60 min; 4 μM) induces in vivo tyrosine phosphorylation of pp105 and (15 μM; 6-8 d) enhances proliferation only of CR2-pos. but not of CR2-neg. cell lines in vitro^[1].</p> <p>C3 Peptide P16 (7.4 μM; 18 h) also induces in vivo tyrosine phosphorylation of pp100 and in vivo proliferation of only small dense resting B lymphocytes and not other B lymphocyte subpopulations nor T lymphocytes^[1].</p> <p>C3 Peptide P16 (0.3-10 μM; 3 min; 33 μM) dose-dependently regulates pp105 phosphorylation, as well as C3d fragment present in trypsin-cleaved C3^[2].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

- [1]. Sachdeva R, et al. DING proteins from phylogenetically different species share high degrees of sequence and structure homology and block transcription of HIV-1 LTR promoter. PLoS One. 2013 Aug 6;8(8):e69623.
- [2]. Frade R, et al. A 16 amino acid synthetic peptide derived from human C3d triggers proliferation and specific tyrosine phosphorylation of transformed CR2-positive human lymphocytes and of normal resting B lymphocytes. Biochem Biophys Res Commun. 1992 Oct 30;188(2):833-42.
- [3]. Lyamani F, et al. A 16 amino-acid synthetic peptide, derived from human C3d, carries regulatory activity on in vitro phosphorylation of a cellular component of the human B lymphoma cells, Raji. Biochem Biophys Res Commun. 1991 Mar 29;175(3):823-30.

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

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