
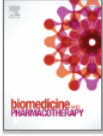


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The nature inspired peptide [T20K]-kalata B1 induces anti-tumor effects in anaplastic large cell lymphoma

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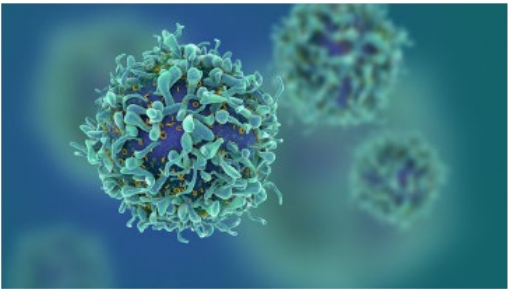
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Absorbance A_{280} [mAU]
Retention Time [min]
Intensity
Mass range [m/z]

Oxidative Folding
Native conformation I-IV, II-V, III-VI
15 possible disulphide connectivities

Solid phase peptide synthesis
PG-O Peptide chain Linker Resin
Native amino acids + NH-PG
Ala/Lys mutants (R.V15, G18, T20, N29) NH-PG

Native Cyclotide
Native cystine-knot connectivity
cyclo-DGETCVGGTCTNFGGRCSSWPVCTRNGLEPV

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导读 奥地利的一项研究表明某些天然衍生的环肽具有抗肿瘤作用。该研究现已在国际上发表, 不仅证明了这些肽对细胞分裂的抑制作用, 甚至还证明了它...

奥地利的一项研究表明某些天然衍生的环肽具有抗肿瘤作用。该研究现已在国际上发表, 不仅证明了这些肽对细胞分裂的抑制作用, 甚至还证明了它们导致癌细胞死亡的能力。到目前为止, 研究的一个重点是这些肽的免疫抑制作用。这种效果也使它们成为多发性硬化药物的候选者。现在在某些淋巴细胞中发现的抗肿瘤作用为这些不寻常的肽的作用谱增加了一个重要的新方面。

Analytical Quality Control
HPLC [T20K]kalata B1
Absorbance A_{280} [mAU]
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Oxidative Folding
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Native Cyclotide
Native cystine-knot connectivity
cyclo-DGETCVGGTCTNFGGRCSSWPVCTRNGLEPV

Cyclotides 是一种小的环状肽, 最初于 1960 年代在非洲植物中发现。在 2010 年代后期, 其中一种(kalata B1)被认为具有免疫抑制作用。这涉及抑制免疫活性细胞(T细胞)的细胞分裂, 这可以治疗自身免疫性疾病。来自奥地利三所大学和维也纳一家研究所的一个研究小组对

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Tumore: peptide derivato dalla natura mostra attività antitumorale

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