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## Topics De Estadística Descriptiva Y Probabilidades Maximo Mitac

pH-modulated synthesis of cyclic peptides containing thiazole moieties by fungal membrane protease I. pH-modulated synthesis of cyclic peptides was achieved by the combined use of a fungal membrane protease I from *Rhizomucor miehei* and cyclic anhydrides. The cyclization proceeded by catalytic peptide bond formation, and the results indicated that an amphipathic domain was necessary for the cyclization. Among the cyclic peptide analogues obtained, the thiazole peptides were especially attractive in terms of properties such as natural peptide mimics, and the structural analyses were subsequently performed on several cyclic peptides. The results revealed that thiazole derivatives participated in hydrophobic interactions and pi-cation interactions, thereby playing a key role in the binding of biomolecules. Q: Calculate  $\int_{-\infty}^{\infty} \frac{e^{-x^2}}{1+x^2} dx$  I was wondering how to calculate this integral using the complex functions. Please explain.  $\int_{-\infty}^{\infty} \frac{e^{-x^2}}{1+x^2} dx$  A: Define  $f(z) = \frac{e^{-z^2}}{1+z^2}$  with  $z = x + iy$ . Then the integral you wish to calculate is  $\int_{-\infty}^{\infty} \frac{e^{-x^2}}{1+x^2} dx = 2\pi \operatorname{Res} f(z) \big|_{z=i} = 2\pi \operatorname{Res} f(z) \big|_{z=i} = \pi e^{-z^2} \big|_{z=i} = \pi e^{-i^2} = \pi e^{-(-1)} = \pi e^{-1} = \frac{\pi}{e}$ . Taking the real part of this gives  $\operatorname{Re} f(z) = \frac{e^{-x^2}}{1+x^2}$  and  $\operatorname{Im} f(z) = \frac{-2xz e^{-z^2}}{(1+z^2)^2}$ . Now, by the Cauchy integral formula,  $\int_{-\infty}^{\infty} \frac{e^{-x^2}}{1+x^2} dx = \pi \operatorname{Res} f(z) \big|_{z=i} = \pi e^{-z^2} \big|_{z=i} = \pi e^{-(-1)} = \pi e^{-1} = \frac{\pi}{e}$ .

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