

Trans Proline Affect Secondary Structure

Proline

ending in proline; with the creation of proline-proline bonds slowest of all. The exceptional conformational rigidity of proline affects the secondary structure...

Protein primary structure

acids, which cannot be cleaved by most proteases. Additionally, proline can form stable trans-isomers at the peptide bond. Additionally, the protein can undergo...

Structure and genome of HIV

(14–15 kDa) binds to the bulged genomic RNA stem-loop secondary structure near the 5' LTR region forming the trans-activation response element (TAR). rev (regulator...

Protein folding (category Protein structure)

of the protein. Secondary structure hierarchically gives way to tertiary structure formation. Once the protein's tertiary structure is formed and stabilized...

Biomolecule (section DNA and RNA structure)

and carboxylate functionalities are attached to the same carbon, plus proline which is not actually an amino acid). Modified amino acids are sometimes...

Ketimine Mannich reaction

creation of a ketimine group. Typically, this is done with a reaction with proline or another nitrogen-containing heterocycle, which control chirality with...

Steroid (section Structure)

terminal "e" in the parent structure name should be elided before the vowel (the presence or absence of a number does not affect such elision). This means...

Coeliac disease

coeliac disease are the prolamins. These are storage proteins rich in proline (prol-) and glutamine (-amin) that dissolve in alcohols and are resistant...

Oxytocin

hormone may be a factor in xenophobic tendencies secondary to this effect. Thus, oxytocin appears to affect individuals at an international level where the...

HIV (section Structure and genome)

the introduction of an intersubunit disulphide bond and an isoleucine to proline mutation (radical replacement of an amino acid) in gp41. The so-called...

Soybean

Authority concluded that intake of isoflavones from supplements did not affect thyroid hormone levels in postmenopausal women. Among the legumes, the soybean...

Mutation (section By effect on structure)

produced is. (For example, the code CCU GAC UAC CUA codes for the amino acids proline, aspartic acid, tyrosine, and leucine. If the U in CCU was deleted, the...

Protein moonlighting

1K87?; Lee YH, Nadaraia S, Gu D, Becker DF, Tanner JJ (Feb 2003). "Structure of the proline dehydrogenase domain of the multifunctional PutA flavoprotein"...

S-Adenosyl methionine (section Structure)

involved in the biosynthesis of several hormones and neurotransmitters that affect mood, such as epinephrine. Methyltransferases are also responsible for the...

Hemp

quality, stunted growth, and death of the plant. These diseases rarely affect the yield of a hemp field, so hemp production is not traditionally dependent...

Pharmacology of ethanol

pharmacodynamics (how it affects the body) and pharmacokinetics (how the body processes it). In the body, ethanol primarily affects the central nervous system...

Phlotoxin 1 (section Structure)

Notably, the inclusion of three proline residues (Pro11, Pro18, and Pro27) introduces the potential for Cis–trans isomerism. This dynamic property can...

Xanthoria parietina

mating-type genetic regions). These differences in mating system structure can significantly affect population genetics, influencing levels of genetic diversity...

Cell signaling

embedded within the plasma membrane. These receptors have extracellular, trans-membrane and intracellular domains. The extracellular domain is responsible...

Emily Balskus

prominent glycol radical enzyme in human gut microbiomes metabolizes trans-4-hydroxy-L-proline outlines an important research approach utilized by Balskus and...

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