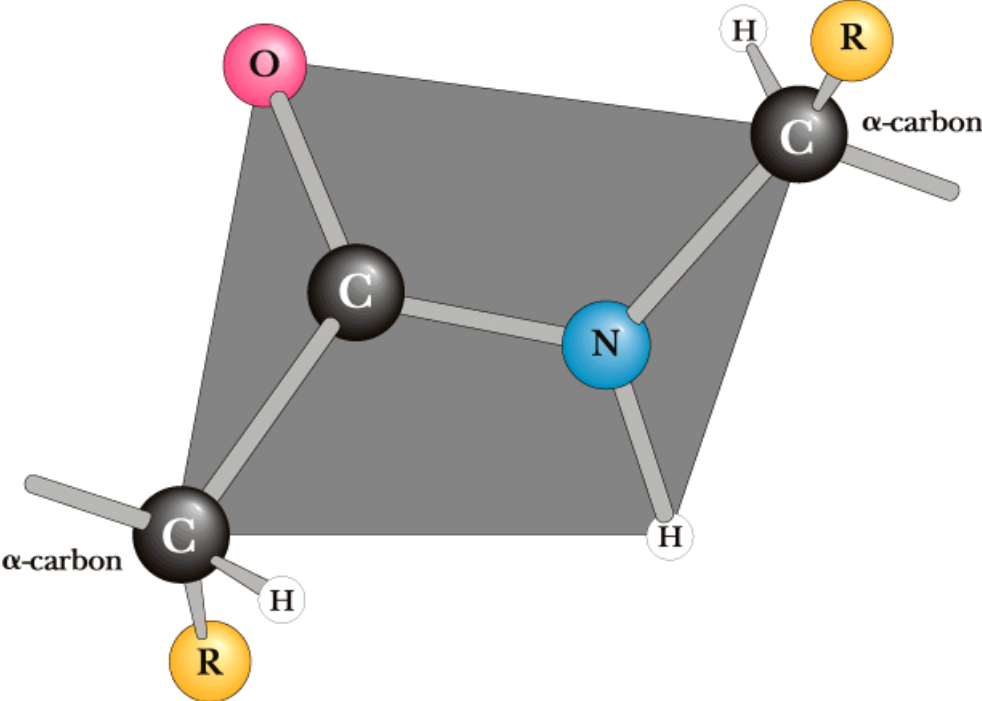
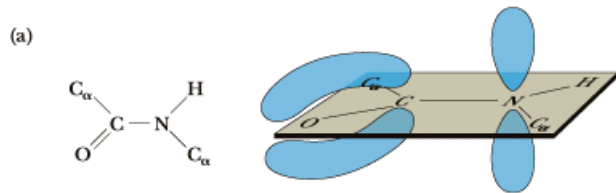
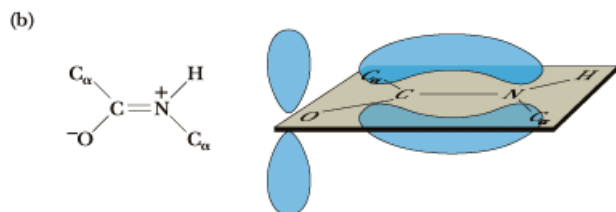


Primární Strukt-dopl

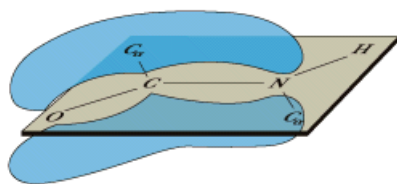




A pure double bond between C and O would permit free rotation around the C — N bond.



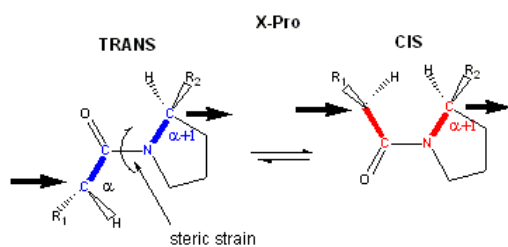
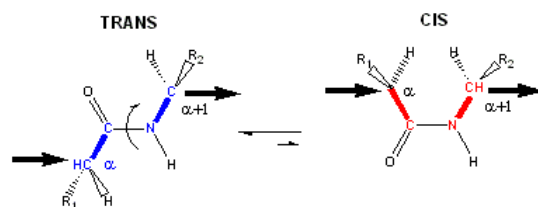
The other extreme would prohibit C — N bond rotation but would place too great a charge on O and N.

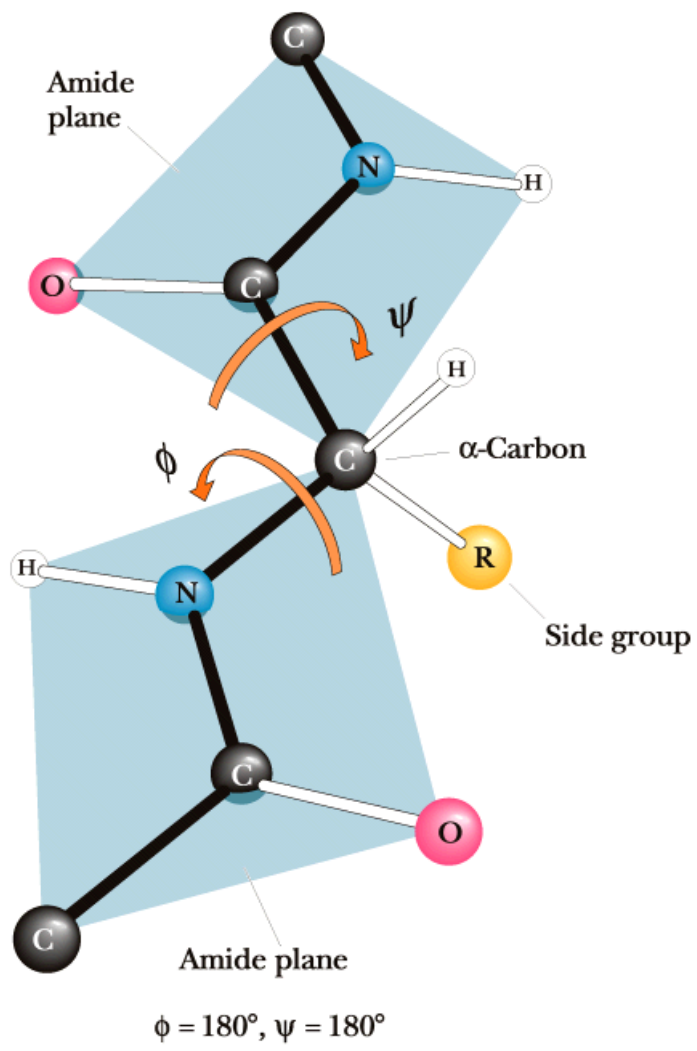


(c) The true electron density is intermediate. The barrier to C — N bond rotation of about 88 kJ/mol is enough to keep the amide group planar.

PEPTIDE BONDS: CIS OR TRANS

X-Y





Garrett & Grisham: Biochemistry, 2/e
 Figure 6.3

