

Homework -

Write answers at the back of your notebook before coming to class.

1. Draw the chemical structure for the pentapeptide I-T-A-L-Y. Label the N and C termini.

MKMSYGVHSP PALRCWCTLP FSSRRKASSL ENTYFSNRTV
FCSSARWIYR.

2. Use the above 50 amino acid polypeptide to calculate
 - a) Molecular weight in Dalton
 - b) Isoelectric point (pI).

(Hint: EXPASY- Swiss Bioinformatics Resource Portal)

3. For this question use the enzyme database (brenda-enzymes.org) to identify Ornithine decarboxylase from *Homo sapiens*.
 - a) To which class does this enzyme belong?
 - b) Write down the EC (enzyme classification) number for this enzyme.