ProtParam

ProtParam

User-provided sequence:

20 3<u>0</u> 4<u>0</u> 50 MASTEGANNM PKQVEVRMHD SHLGSEEPKH RHLGLRLCDK LGKNLLLTLT VFGVILGAVC 90 80 100 110 GGLLRLASPI HPDVVMLIAF PGDILMRMLK MLILPLIISS LITGLSGLDA KASGRLGTRA 14<u>0</u> 15<u>0</u> 16<u>0</u> 17<u>0</u> MVYYMSTTII AAVLGVILVL AIHPGNPKLK KQLGPGKKND EVSSLDAFLD LIRNLFPENL 20<u>0</u> 21<u>0</u> 22<u>0</u> 23<u>0</u> VQACFQQIQT VTKKVLVAPP PDEEANATSA VVSLLNETVT EVPEETKMVI KKGLEFKDGM 270 26<u>0</u> 280 290 NVLGLIGFFI AFGIAMGKMG DQAKLMVDFF NILNEIVMKL VIMIMWYSPL GIACLICGKI 320 33<u>0</u> 340 IAIKDLEVVA RQLGMYMVTV IIGLIIHGGI FLPLIYFVVT RKNPFSFFAG IFQAWITALG 38<u>0</u> TASSAGTLPV TFRCLEENLG IDKRVTRFVL PVGATIN

References and documentation are available.

Number of amino acids: 397
Molecular weight: 43125.71

Theoretical pI: 8.93

```
Amino acid composition: | CSV format
                7.3%
Ala (A) 29
                 3.3%
Arg (R) 13
Asn (N) 15
                 3.8%
Asp (D) 14
                 3.5%
Cys (C)
                 1.5%
        6
Gln (Q)
        9
                2.3%
Glu (E) 17
                4.3%
Gly (G) 35
                8.8%
        7
                 1.8%
His (H)
        37
                9.3%
Ile (I)
Leu (L)
        54
               13.6%
                6.0%
Lys (K) 24
Met (M) 19
                 4.8%
Phe (F) 19
                 4.8%
        19
                 4.8%
Pro (P)
                 4.3%
Ser (S)
        17
Thr (T)
        21
                 5.3%
Trp (W)
         2
                 0.5%
Tyr (Y)
                 1.3%
Val (V)
        35
                 8.8%
Pyl (0)
        0
                 0.0%
Sec (U)
                 0.0%
                 0.0%
 (B)
      0
 (Z)
                 0.0%
      0
 (X)
                 0.0%
```

Total number of negatively charged residues (Asp + Glu): 31 Total number of positively charged residues (Arg + Lys): 37

Atomic composition:

Carbon C 1969 Hydrogen H 3214 Nitrogen N 500 Oxygen O 527 Sulfur S 25
Formula: C ₁₉₆₉ H ₃₂₁₄ N ₅₀₀ O ₅₂₇ S ₂₅ Total number of atoms: 6235
Extinction coefficients:
Extinction coefficients are in units of $\mathrm{M}^{-1}\mathrm{cm}^{-1}$, at 280 nm measured in water.
Ext. coefficient 18825 Abs 0.1% (=1 g/l) 0.437, assuming all pairs of Cys residues form cystines
Ext. coefficient 18450 Abs 0.1% (=1 g/l) 0.428, assuming all Cys residues are reduced
Estimated half-life:
The N-terminal of the sequence considered is M (Met).
The estimated half-life is: 30 hours (mammalian reticulocytes, in vitro). >20 hours (yeast, in vivo). >10 hours (Escherichia coli, in vivo).
Instability index:
The instability index (II) is computed to be 39.82 This classifies the protein as stable.

Aliphatic index: 122.27

Grand average of hydropathicity (GRAVY): 0.572



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