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> 39<u>0</u> 400 TASSAGTLPV TFRCLEENLG IDKRVTRFVL PVGATINMDG TALYEAVAA

References and documentation are available.

Number of amino acids: 409
Molecular weight: 44319.05

Theoretical pI: 8.63

```
Amino acid composition: | CSV format
                8.1%
Ala (A) 33
Arg (R) 13
                 3.2%
Asn (N) 15
                 3.7%
Asp (D) 15
                 3.7%
Cys (C)
                 1.5%
        6
Gln (Q)
        9
                2.2%
Glu (E) 18
                4.4%
                8.8%
Gly (G) 36
        7
                1.7%
His (H)
        37
Ile (I)
                9.0%
Leu (L)
        55
               13.4%
Lys (K)
                5.9%
        24
Met (M) 20
                4.9%
Phe (F) 19
                 4.6%
        19
                 4.6%
Pro (P)
Ser (S)
        17
                 4.2%
Thr (T)
        22
                 5.4%
Trp (W)
        2
                 0.5%
Tyr (Y)
        6
                 1.5%
Val (V)
        36
                 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): 33 Total number of positively charged residues (Arg + Lys): 37

Atomic composition:

Carbon Hydrogen Nitrogen Oxygen Sulfur	C H N O S	2021 3294 512 545 26
Formula: $C_{2021}H_{3294}N_{512}O_{545}S_{26}$ Total number of atoms: 6398		
Extinction coefficients:		
Extinction coefficients are in units of M^{-1} cm^{-1} , at 280 nm measured in water.		
Ext. coeffi Abs 0.1% (=		20315 0.458, assuming all pairs of Cys residues form cystines
Ext. coeffi Abs 0.1% (=		19940 0.450, 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 38.55 This classifies the protein as stable.		



Aliphatic index: 121.32

Grand average of hydropathicity (GRAVY): 0.574

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