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# **ProtParam**

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# **User-provided sequence:**

3<u>0</u> 4<u>0</u> 5<u>0</u> VFGVILGAVC GGLLRLASPI HPDVVMLIAF PGDILMRMLK MLILPLIISS LITGLSGLDA 80 90 100 110 120 KASGRLGTRA MVYYMSTTII AAVLGVILVL AIHPGNPKLK KQLGPGKKND EVSSLDAFLD 14<u>0</u> 15<u>0</u> 16<u>0</u> 17<u>0</u> 180 LIRNLFPENL VQACFQQIQT VTKKVLVAPP PDEEANATSA VVSLLNETVT EVPEETKMVI 20<u>0</u> 21<u>0</u> 22<u>0</u> 23<u>0</u> KKGLEFKDGM NVLGLIGFFI AFGIAMGKMG DQAKLMVDFF NILNEIVMKL VIMIMCAGTL 260 270 280 290 PVTFRCLEEN LGIDKRVTRF VLPVGATINM DGTALYEAVA AIFIAQMNGV VLDGGQIVTV 320 33<u>0</u> 340 350 SLTATLASVG AASIPSAGLV TMLLILTAVG LPTEDISLLV AVDWLLDRMR TSVNVVGDSF 38<u>0</u> 390 400 410 420 GAGIVYHLSK SELDTIDSQH RVHEDIEMTK TQSIYDDMKN HRESNSNQCV YAAHNSVIVD ECKVHFPFMD IETCI

References and documentation are available.

Number of amino acids: 435
Molecular weight: 46890.33

Theoretical pI: 5.24

Amino acid composition: | CSV format Ala (A) 35 8.0% Arg (R) 12 2.8% Asn (N) 17 3.9% Asp (D) 24 5.5% Cys (C) 7 1.6% 2.5% Gln (Q) 11 Glu (E) 20 4.6% Gly (G) 33 7.6% His (H) 1.8% 8 Ile (I) 37 8.5% Leu (L) 52 12.0% 4.8% 21 Lys (K) Met (M) 21 4.8% Phe (F) 17 3.9% Pro (P) 17 3.9% Ser (S) 24 5.5% Thr (T) 26 6.0% Trp (W) 1 0.2% 6 1.4% Tyr (Y) Val (V) 46 10.6% Pyl (0) 0 0.0% Sec (U) 0.0% 0.0% (B) 0 (Z) 0 0.0% 0.0% (X)

Total number of negatively charged residues (Asp + Glu): 44

0xygen

Sulfur

```
Total number of positively charged residues (Arg + Lys): 33
Atomic composition:
Carbon
          C
                   2105
Hydrogen H
                   3433
Nitrogen N
                   537
```

Formula:  $C_{2105}H_{3433}N_{537}O_{608}S_{28}$ Total number of atoms: 6711

0

S

#### Extinction coefficients:

Extinction coefficients are in units of M<sup>-1</sup> cm<sup>-1</sup>, at 280 nm measured in water.

```
Ext. coefficient
                   14815
Abs 0.1\% (=1 g/l) 0.316, assuming all pairs of Cys residues form cystines
```

608

28

Ext. coefficient 14440

Abs 0.1% (=1 g/l) 0.308, assuming all Cys residues are reduced

#### Estimated half-life:

The N-terminal of the sequence considered is V (Val).

The estimated half-life is: 100 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 33.10 This classifies the protein as stable.

Aliphatic index: 118.51

Grand average of hydropathicity (GRAVY): 0.518



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