ProtParam

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User-provided sequence:

20 3<u>0</u> 4<u>0</u> MVPHAILARG RDVCRRNGLL ILSVLSVIVG CLLGFFLRTR RLSPQEISYF QFPGELLMRM 90 80 10<u>0</u> 110 LKMMILPLVV SSLMSGLASL DAKTSSRLGV LTVAYYLWTT FMAVIVGIFM VSIIHPGSAA 14<u>0</u> 15<u>0</u> 16<u>0</u> 17<u>0</u> QKETTEQSGK PIMSSADALL DLIRNMFPAN LVEATFKQYR TKTTPVVKSP KVAPEEAPPR 20<u>0</u> 21<u>0</u> 22<u>0</u> 23<u>0</u> RILIYGVQEE NGSHVQNFAL DLTPPPEVVY KSEPGTSDGM NVLGIVFFSA TMGIMLGRMG 26<u>0</u> 270 280 290 DSGAPLVSFC QCLNESVMKI VAVAVWYFPF GIVFLIAGKI LEMDDPRAVG KKLGFYSVTV 320 33<u>0</u> 340 350 VCGLVLHGLF ILPLLYFFIT KKNPIVFIRG ILQALLIALA TSSSACWRTT TSTGASLASC 380 390 400 410 420 CPWVPPSTWT ALRSTRLWPP SSSPRSTTTS WTLARSSPSV SQPLQPALGQ LASPRPASSP 440 WSSCSPPWDC PPMTSPSSLP LTGLWTVSAP

References and documentation are available.

Number of amino acids: 450
Molecular weight: 48808.53

Theoretical pI: 9.47

Amino acid composition: | CSV format Ala (A) 33 7.3% Arg (R) 4.9% 22 Asn (N) 1.8% 8 Asp (D) 10 2.2% Cys (C) 10 2.2% Gln (Q) 12 2.7% Glu (E) 13 2.9% Gly (G) 29 6.4% His (H) 0.9% 4 Ile (I) 25 5.6% Leu (L) 12.0% 15 3.3% Lys (K) Met (M) 17 3.8% Phe (F) 20 4.4% Pro (P) 40 8.9% Ser (S) 51 11.3% Thr (T) 31 6.9% Trp (W) 10 2.2% 9 2.0% Tyr (Y) Val (V) 37 8.2% Pyl (0) 0 0.0% Sec (U) 0 0.0% 0.0% (B) 0 (Z) 0 0.0% 0.0% (X)

Total number of negatively charged residues (Asp + Glu): 23

Total number of positively charged residues (Arg + Lys): 37

Atomic composition:

Carbon	C	2222
Hydrogen	Н	3529
Nitrogen	N	569
0xygen	0	608
Sulfur	S	27

Formula: $C_{2222}H_{3529}N_{569}O_{608}S_{27}$ Total number of atoms: 6955

Extinction coefficients:

Extinction coefficients are in units of M⁻¹ cm⁻¹, at 280 nm measured in water.

Ext. coefficient 69035

Abs 0.1% (=1 g/l) 1.414, assuming all pairs of Cys residues form cystines

Ext. coefficient 68410

Abs 0.1% (=1 g/l) 1.402, 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 55.71 This classifies the protein as unstable.

Aliphatic index: 99.64

Grand average of hydropathicity (GRAVY): 0.369



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