ProtParam

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User-provided sequence:

3<u>0</u> 4<u>0</u> MSSHGNSLFL RESGQRLGRV GWLQRLQESL QQRALRTRLR LQTMTLEHVL RFLRRNAFIL 9<u>0</u> 10<u>0</u> 11<u>0</u> LTVSAVVIGV SLAFALRPYQ LTYRQIKYFS FPGELLMRML QMLVLPLIVS SLVTGMASLD 14<u>0</u> 15<u>0</u> 16<u>0</u> 17<u>0</u> NKATGRMGMR AAVYYMVTTI IAVFIGILMV TIIHPGKGSK EGLHREGRIE TIPTADAFMD 21<u>0</u> 22<u>0</u> LIRNMFPPNL VEACFKQFKT QYSTRVVTRT MVRTENGSEP GASMPPPFSV ENGTSFLENV 27<u>0</u> 28<u>0</u> 290 26<u>0</u> TRALGTLQEM LSFEETVPVP GSANGINALG LVVFSVAFGL VIGGMKHKGR VLRDFFDSLN 32<u>0</u> 33<u>0</u> 340 EAIMRLVGII IWYAPVGILF LIAGKILEME DMAVLGGQLG MYTLTVIVGL FLHAGIVLPL 40<u>0</u> 38<u>0</u> 39<u>0</u> 41<u>0</u> IYFLVTHRNP FPFIGGMLQA LITAMGTSSS SATLPITFRC LEEGLGVDRR ITRFVLPVGA 450 460 TVNMDGTALY EALAAIFIAQ VNNYELNLGQ ITTISITATA ASVGAAGIPQ AGLVTMVIVL 51<u>0</u> TSVGLPTEDI TLIIAVDWFL DRLRTMTNVL GDSIGAAVIE HLSQRELELQ EAELTLPSLG KPYKSLMAQE KGASRGRGGN ESAM

References and documentation are available.

Number of amino acids: 564
Molecular weight: 61565.42

Theoretical pI: 9.26

Amir	10	acid	composition:	CSV format
Ala	(A) 45	8.0%	
Arg	(R) 36	6.4%	
Asn	(N) 18	3.2%	
Asp	(D) 12	2.1%	
Cys	(C) 2	0.4%	
Gln	(Q) 20	3.5%	
Glu	(E) 30	5.3%	
Gly	(G) 52	9.2%	
His	(H) 8	1.4%	
Ile	(I) 41	7.3%	
Leu	(L) 74	13.1%	
Lys	(K) 12	2.1%	
Met	(M) 27	4.8%	
Phe	(F) 27	4.8%	
Pro	(P) 23	4.1%	
Ser	(S) 34	6.0%	
Thr	(T) 42	7.4%	
Trp	(W) 3	0.5%	
Tyr	(Y) 12	2.1%	
Val	(V) 46	8.2%	
Pyl	(0) 6	0.0%	
Sec	(U) 6	0.0%	

(B)	0	0.0%
(Z)	0	0.0%
(X)	0	0.0%

Total number of negatively charged residues (Asp + Glu): 42 Total number of positively charged residues (Arg + Lys): 48

Atomic composition:

Carbon	C	2775
Hydrogen	Н	4491
Nitrogen	N	741
0xygen	0	775
Sulfur	S	29

Formula: $C_{2775}H_{4491}N_{741}O_{775}S_{29}$ Total number of atoms: 8811

Extinction coefficients:

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

Ext. coefficient 34505 Abs 0.1% (=1 g/l) 0.560, assuming all pairs of Cys residues form cystines

Ext. coefficient 34380 Abs 0.1% (=1 g/l) 0.558, 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 36.33 This classifies the protein as stable.

Aliphatic index: 111.15

Grand average of hydropathicity (GRAVY): 0.399



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