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ProtParam

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User-provided sequence:

3<u>0</u> 20 4<u>0</u> 5<u>0</u> MTKSNGEEPK MGGRMERFQQ GVRKRTLLAK KKVQNITKED VKSYLFRNAF VLLTVTAVIV 90 80 100 11<u>0</u> GTILGFTLRP YRMSYREVKY FSFPGELLMR MLQMLVLPLI ISSLVTGMAA LDSKASGKMG 13<u>0</u> 14<u>0</u> 15<u>0</u> 16<u>0</u> 17<u>0</u> 180 MRAVVYYMTT TIIAVVIGII IVIIIHPGKG TKENMHREGK IVRVTAADAF LDLIRYAPVG 20<u>0</u> 21<u>0</u> 22<u>0</u> 23<u>0</u> ILFLIAGKIV EMEDMGVIGG QLAMYTVTVI VGLLIHAVIV LPLLYFLVTR KNPWVFIGGL 26<u>0</u> 270 280 290 LQALITALGT SSSSATLPIT FKCLEENNGV DKRVTRFVLP VGATINMDGT ALYEALAAIF 320 330 340 35<u>0</u> IAQVNNFELN FGQIITISIT ATAASIGAAG IPQAGLVTMV IVLTSVGLPT DDITLIIAVD 380 390 400 41<u>0</u> 420 WFLDRLRTTT NVLGDSLGAG IVEHLSRHEL KNRDVEMGNS VIEENEMKKP YQLIAQDNET EKPIDSETKM

References and documentation are available.

Number of amino acids: 430

Molecular weight: 47099.74

Theoretical pI: 9.05

Amino acid composition: | CSV format Ala (A) 33 7.7% Arg (R) 4.7% 20 Asn (N) 16 3.7% Asp (D) 15 3.5% Cys (C) 1 0.2% 2.6% Gln (Q) 11 23 Glu (E) 5.3% Gly (G) 35 8.1% His (H) 1.2% 5 Ile (I) 43 10.0% Leu (L) 47 10.9% 5.3% Lys (K) 23 Met (M) 20 4.7% Phe (F) 16 3.7% Pro (P) 14 3.3% Ser (S) 19 4.4% Thr (T) 35 8.1% Trp (W) 2 0.5% 11 2.6% Tyr (Y) Val (V) 41 9.5% 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): 38

Total number of positively charged residues (Arg + Lys): 43

Atomic composition:

Carbon	C	2131
Hydrogen	Н	3488
Nitrogen	N	552
0xygen	0	599
Sulfur	S	21

Formula: $C_{2131}H_{3488}N_{552}O_{599}S_{21}$ Total number of atoms: 6791

Extinction coefficients:

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

Ext. coefficient 27390

Abs 0.1% (=1 g/l) 0.582, assuming all pairs of Cys residues form cystines

Ext. coefficient 27390

Abs 0.1% (=1 g/l) 0.582, 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 25.69 This classifies the protein as stable.

Aliphatic index: 116.95

Grand average of hydropathicity (GRAVY): 0.404



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