

ProtParam

User-provided sequence:

102030405060

MVPHAILARG RDVCRRNGLL ILSVLSVIVG CLLGFFLRTR RLSPQEISYF QFPGELLMRM

708090100110120

LKMMILPLVV SSLMSGLASL DAKTSSRLGV LTVAYYLWTT FMAVIVGIFM VSIIHPGSAA

130140150160170180

QKETTEQSGK PIMSSADALL DLIRNMFAN LVEATFKQYR TKTPPVVKSP KVAPEEAPPR

190200210220230240

RILYIGVQEE NGSHVQNFAI DLTTPPEVVY KSEPGTSDGM NVLGIVFFSA TMGIMLGRMG

250260270280290300

DSGAPLVSFC QCLNESVMKI VAVAVWYFPF GIVFLIAGKI LEMDDPRAVG KKLGFYSVTV

310320330340350360

VCGLVLHGLF ILPLLYFFIT KKNPIVFIRG ILQALLIALA TSSSSATLPI TFKCLLENNH

370380390400410420

IDRRIARFVL PVGATINMDG TALYEAVAAI FIAQVNNYEL DFGQIITISI TATAASIGAA

430440450460470480

GIPQAGLVTM VIVLTSVGLP TDDITLIIAV DWALDRFTM INVLGDALAA GIMAHICRKD

490500510520530540

FARDTGTEKL LPCETKPVSL QEIVAAQQNG CVKSVAEASE LTLGPTCPHH VPVQVEQDEE

550560

LPAASLNHCT IQISELETNV

[References](#) and [documentation](#) are available.

Number of amino acids: 560

Molecular weight: 60658.47

Theoretical pI: 6.33

Amino acid composition: CSV format

Ala (A)	51	9.1%
Arg (R)	23	4.1%
Asn (N)	17	3.0%
Asp (D)	20	3.6%
Cys (C)	11	2.0%
Gln (Q)	18	3.2%
Glu (E)	26	4.6%
Gly (G)	38	6.8%
His (H)	9	1.6%
Ile (I)	47	8.4%
Leu (L)	65	11.6%
Lys (K)	20	3.6%
Met (M)	20	3.6%
Phe (F)	26	4.6%
Pro (P)	31	5.5%
Ser (S)	36	6.4%
Thr (T)	36	6.4%
Trp (W)	3	0.5%
Tyr (Y)	11	2.0%
Val (V)	52	9.3%
Py1 (O)	0	0.0%
Sec (U)	0	0.0%

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

Total number of negatively charged residues (Asp + Glu): 46

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

Atomic composition:

Carbon	C	2747
Hydrogen	H	4425
Nitrogen	N	705
Oxygen	O	771
Sulfur	S	31

Formula: $C_{2747}H_{4425}N_{705}O_{771}S_{31}$

Total number of atoms: 8679

Extinction coefficients:

Extinction coefficients are in units of $M^{-1} cm^{-1}$, at 280 nm measured in water.

Ext. coefficient 33515

Abs 0.1% (=1 g/l) 0.553, assuming all pairs of Cys residues form cystines

Ext. coefficient 32890

Abs 0.1% (=1 g/l) 0.542, 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 36.25

This classifies the protein as stable.

Aliphatic index: 114.04

Grand average of hydropathicity (GRAVY): 0.495



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