

ProtParam

User-provided sequence:

10 20 30 40 50 60  
FKTNYEKRSF KVPIQANETL VGAVINNVE AMETLTRITE ELVPVPGSVN GVNALGLVVF  
  
70 80 90 100 110 120  
SMCFGFVIGN MKEQGQALRE FFDSLNEAIM RLVAVIMCHR LATPLLLGNT EKPLGFYWRV  
  
130 140 150 160  
AASTHHRSGD LFKFCHPTHH LQVPGREQWR GQARHQIRAP RRSHH

References and documentation are available.

Number of amino acids: 165

Molecular weight: 18659.56

Theoretical pI: 9.66

Amino acid composition: CSV format

Ala (A)	12	7.3%
Arg (R)	13	7.9%
Asn (N)	9	5.5%
Asp (D)	2	1.2%
Cys (C)	3	1.8%
Gln (Q)	7	4.2%
Glu (E)	11	6.7%
Gly (G)	12	7.3%
His (H)	9	5.5%
Ile (I)	7	4.2%
Leu (L)	15	9.1%
Lys (K)	6	3.6%
Met (M)	5	3.0%
Phe (F)	10	6.1%
Pro (P)	8	4.8%
Ser (S)	8	4.8%
Thr (T)	9	5.5%
Trp (W)	2	1.2%
Tyr (Y)	2	1.2%
Val (V)	15	9.1%
Pro (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): 13  
Total number of positively charged residues (Arg + Lys): 19

Atomic composition:

Carbon	C	833
Hydrogen	H	1310
Nitrogen	N	246
Oxygen	O	227
Sulfur	S	8

Formula: C<sub>833</sub>H<sub>1310</sub>N<sub>246</sub>O<sub>227</sub>S<sub>8</sub>  
Total number of atoms: 2624

Extinction coefficients:

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

Ext. coefficient      14105  
Abs 0.1% (=1 g/l)    0.756, assuming all pairs of Cys residues form cystines

Ext. coefficient      13980  
Abs 0.1% (=1 g/l)    0.749, assuming all Cys residues are reduced

**Estimated half-life:**

The N-terminal of the sequence considered is F (Phe).

The estimated half-life is: 1.1 hours (mammalian reticulocytes, in vitro).  
                                      3 min (yeast, in vivo).  
                                      2 min (Escherichia coli, in vivo).

**Instability index:**

The instability index (II) is computed to be 39.10  
This classifies the protein as stable.

**Aliphatic index:** 85.64

**Grand average of hydropathicity (GRAVY):** -0.175



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