

ProtParam

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User-provided sequence:

102030405060

MTKSNGEPEK MGGRMERFQQ GVRKRTLLAK KKVQNITKED VKSYLFRNAF VLLTVTAVIV

708090100110120

GTILGFTLRP YRMSYREVKY FSFPGELLMR MLQMLVPLI ISSLVGTMAA LDSKASGKMG

130140150160170180

MRAVYYMTT TIIAVVIGII IVIIHPGKG TKNMHREGK IVRVTAADAF LDLIRNMFPP

190200210220230240

NLVEACFKQF KTYEKRSFK VPIQANETLV GAVINNVSEA METLTRITEE LVPVPGSVNG

250260270280290300

VNALGLVFS MCFGFVIGNM KEQGQALREF FDSLNEAIMR LVAVIMWYAP VGILFLIAGK

310320330340350360

IVEMEDMGVI GGQLAMTYVT VIVGLLIHAV IVLPLLYFLV TRKNPWVFIG GLLQALITAL

370380390400410420

GTSSSSATLP ITFKCLEENN GVDKRVTRFV LPVGATINMD GTALYEALAA IFIAQVNNFE

430440450460470480

LNFGQIITIS ITATAASIGA AGIPQAGLVT MVIVLTSVGL PTDDITLIIA VDWFLDRLRT

490500510520530540

TTNVLGDSLQ AGIVEHLSRH ELKNRDVEMG NSVIEENEMK KPYQLIAQDN ETEKPIDSET

KM

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

Number of amino acids: 542

Molecular weight: 59572.31

Theoretical pI: 8.52

Amino acid composition:

CSV format

Ala (A)	41	7.6%
Arg (R)	24	4.4%
Asn (N)	26	4.8%
Asp (D)	16	3.0%
Cys (C)	3	0.6%
Gln (Q)	15	2.8%
Glu (E)	33	6.1%
Gly (G)	42	7.7%
His (H)	5	0.9%
Ile (I)	49	9.0%
Leu (L)	56	10.3%
Lys (K)	28	5.2%
Met (M)	26	4.8%
Phe (F)	25	4.6%
Pro (P)	19	3.5%
Ser (S)	24	4.4%
Thr (T)	40	7.4%
Trp (W)	3	0.6%
Tyr (Y)	12	2.2%
Val (V)	55	10.1%
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): 49

Total number of positively charged residues (Arg + Lys): 52

Atomic composition:

Carbon	C	2694
Hydrogen	H	4374
Nitrogen	N	696
Oxygen	O	758
Sulfur	S	29

Formula: $C_{2694}H_{4374}N_{696}O_{758}S_{29}$

Total number of atoms: 8551

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) 0.579, assuming all pairs of Cys residues form cystines

Ext. coefficient 34380

Abs 0.1% (=1 g/l) 0.577, 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 27.78

This classifies the protein as stable.

Aliphatic index: 112.55

Grand average of hydropathicity (GRAVY): 0.377



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