

ProtParam

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User-provided sequence:

102030405060

MVPHAILARG RDVCRRNGLL ILSVLSVIVG CLLGFFLRTR RLSPQEISYF QFPGELLMRM

708090100110120

LKMMILPLVV SRNMFANLV EATFKQYRTK TTPVVKSPKV APEEAPPRRI LIYGVQEENG

130140150160170180

SHVQNFDL TPPPEVYKS EPGTSDGMNV LGIVFFSATM GIMLGRMGDS GAPLVSFCQC

190200210220230240

LNESVMKIVA VAVWYFPGI VFLIAGKILE MDDPRAVGKK LGFYSVTVC GLVLHGLFIL

250260270280290300

PLLYFFITKK NPIVFIRGIL QALLIALATS SSSATLPITF KCLLENNHID RRIARFVLPV

310320330340350360

GATINMDGTA LYEAVAAIFI AQVNNYELDF GQIITISITA TAASIGAAGI PQAGLVTMVI

370380390400410420

VLTSVGLPTD DITLIIAVDW ALDRFRTMIN VLGDALAAGI MAHICRKDFA RDTGTETCFP

430440450460470

SPETAALRDQ ASEPPGDRGS PAEWLCEECs RGLRAHPGPH LPPPRPRSSG AG

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

Number of amino acids: 472

Molecular weight: 51244.34

Theoretical pI: 8.49

Amino acid composition:

CSV format

Ala (A)	43	9.1%
Arg (R)	28	5.9%
Asn (N)	14	3.0%
Asp (D)	18	3.8%
Cys (C)	10	2.1%
Gln (Q)	11	2.3%
Glu (E)	20	4.2%
Gly (G)	37	7.8%
His (H)	7	1.5%
Ile (I)	38	8.1%
Leu (L)	52	11.0%
Lys (K)	14	3.0%
Met (M)	16	3.4%
Phe (F)	25	5.3%
Pro (P)	34	7.2%
Ser (S)	27	5.7%
Thr (T)	27	5.7%
Trp (W)	3	0.6%
Tyr (Y)	9	1.9%
Val (V)	39	8.3%
PyI (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): 38

Total number of positively charged residues (Arg + Lys): 42

Atomic composition:

Carbon	C	2323
Hydrogen	H	3716
Nitrogen	N	612
Oxygen	O	637
Sulfur	S	26

Formula: C₂₃₂₃H₃₇₁₆N₆₁₂O₆₃₇S₂₆

Total number of atoms: 7314

Extinction coefficients:

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

Ext. coefficient 30535

Abs 0.1% (=1 g/l) 0.596, assuming all pairs of Cys residues form cystines

Ext. coefficient 29910

Abs 0.1% (=1 g/l) 0.584, 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 39.29

This classifies the protein as stable.

Aliphatic index: 107.44

Grand average of hydropathicity (GRAVY): 0.397



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