

ProtParam

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ProtParam

User-provided sequence:

102030405060

MRKRTLVSVL FLFSLLFLLP DQGRKLHANA EESSDDVTD PKVEEKIGGH GGLSTDSDVV

708090100110120

HRESEMSKK TLRNAEKFE FQAEVSRLMD IIINSLYSNK DIFLRELISN ASDALDKIRF

130140150160170180

LALTDKDVLG EGD TAKLEIQ IKLDKAKKIL SIRDRGIGMT KEDLIKNLGT IAKSGTSAFV

190200210220230240

EKMQSSGDLN LIGQFGVGFY SAYLVADYIE VISKHNDSDQ YVWESKADGK FAVSEDTWNE

250260270280290300

PLGRGTEIRL HLRDEAGEYL EESKLKELVK RYSEFINFPI SLWASKEVET EVPVEEDES A

310320330340350360

DEETETTSTE EEKEEDAEEE DGEKKQKTKK VKETVYEWEL LNDVKAIWLR SPKEVTEEEY

370380390400410420

TKFYHSLSKD FTDEKPMAWS HFNAEGDVEF KAVLYVPPKA PHDLYESYYN SNKANLKLYV

430440450460470480

RRVFISDEFD ELLPKYLSFL KGLVSDSTLP LNVSREMLQQ HSSLKTIKKK LIRKALDMIR

490500510520530540

KLAEEDPDEI HDDEKKDVEK SGENDEKKGQ YTKFWNEFGK SVKLGIIEDA ANRNRLAKLL

550560570580590600

RFETTKSDGK LTSLDQYIKR MKKSQKDIFY ITGSSKEQLE KSPFLERLIK KGYEVIFFTD

610620630640650660

PVDEYLMQYL MDYEDKKFQN VSKEGLKVGK DSKDKELKEA FKELTKWWKG NLAENVDDV

670680690700710720

KISNRLADTP CVVVTSKFGW SANMERIMQS QTLSDANKQA YMHGKRVLEI NPRHPPIKEL

730740750760770780

KDRIASDPED ESVKETAQLM YQTALIESGF LLTDPKDFAA RIYNSVKSGL NISPDVADE

790800810820

EVEAAEEPET SEATETKSDD LAGGLNIEAE PVEQQEENTK DEL

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

Number of amino acids: 823

Molecular weight: 94171.92

Theoretical pI: 4.92

Amino acid composition:

CSV format

Ala (A) 485.8%

Arg (R)	31	3.8%
Asn (N)	31	3.8%
Asp (D)	67	8.1%
Cys (C)	1	0.1%
Gln (Q)	22	2.7%
Glu (E)	99	12.0%
Gly (G)	38	4.6%
His (H)	12	1.5%
Ile (I)	43	5.2%
Leu (L)	80	9.7%
Lys (K)	91	11.1%
Met (M)	15	1.8%
Phe (F)	32	3.9%
Pro (P)	24	2.9%
Ser (S)	67	8.1%
Thr (T)	40	4.9%
Trp (W)	10	1.2%
Tyr (Y)	26	3.2%
Val (V)	46	5.6%
Pyl (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): 166

Total number of positively charged residues (Arg + Lys): 122

Atomic composition:

Carbon	C	4180
Hydrogen	H	6606
Nitrogen	N	1094
Oxygen	O	1342
Sulfur	S	16

Formula: C₄₁₈₀H₆₆₀₆N₁₀₉₄O₁₃₄₂S₁₆

Total number of atoms: 13238

Extinction coefficients:

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

Ext. coefficient 93740

Abs 0.1% (=1 g/l) 0.995, assuming all pairs of Cys residues form cystines

Ext. coefficient 93740

Abs 0.1% (=1 g/l) 0.995, 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 38.43

This classifies the protein as stable.

Aliphatic index: 80.33

Grand average of hydropathicity (GRAVY): -0.704

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