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ProtParam - Results

User-provided sequence:

10 20 30 40 50 60
MEALGDLEGP RAPGGDDPAG SAGETPGWLS REQVFVLISA ASVNLGSMMC YSILGPFFPK
70
EENVECQGSI SHLCC

[[Documentation \(/protparam/protparam-doc.html\)](#) / [Reference \(/protparam/protpar-ref.html\)](#)]

Number of amino acids: 75

Theoretical pI: 4.18

Molecular weight: 7831.85

Amino acid composition: [CSV format](#)

Ala (A)	6	8.0%
Arg (R)	2	2.7%
Asn (N)	2	2.7%
Asp (D)	3	4.0%
Cys (C)	4	5.3%
Gln (Q)	2	2.7%
Glu (E)	7	9.3%
Gly (G)	10	13.3%
His (H)	1	1.3%
Ile (I)	3	4.0%
Leu (L)	7	9.3%
Lys (K)	1	1.3%
Met (M)	3	4.0%
Phe (F)	3	4.0%
Pro (P)	6	8.0%
Ser (S)	8	10.7%
Thr (T)	1	1.3%
Trp (W)	1	1.3%
Tyr (Y)	1	1.3%
Val (V)	4	5.3%
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): 10

Total number of positively charged residues (Arg + Lys): 3

Atomic composition:

Carbon	C	339
Hydrogen	H	525
Nitrogen	N	89
Oxygen	O	110
Sulfur	S	7

Formula: C₃₃₉H₅₂₅N₈₉O₁₁₀S₇

Total number of atoms: 1070

Extinction coefficients:

Extinction coefficients are in units of M⁻¹ cm⁻¹, at 280 nm measured in water.
Ext. coefficient 7240

Abs 0.1% (=1 g/l) 0.924, assuming all pairs of Cys residues form cystines

Ext. coefficient 6990

Abs 0.1% (=1 g/l) 0.893, 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 38.58

This classifies the protein as stable.

Aliphatic index: 75.47

Grand average of hydropathicity (GRAVY): 0.051

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