

## ProtParam - Results

## User-provided sequence:

MEALGDLEGP RAPGGDDPAG SAGETPGWLS REQVFLISA ASVNLGSMMC YSILGPFFPK  
EENVECQGS I 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: C<sub>339</sub>H<sub>525</sub>N<sub>89</sub>O<sub>110</sub>S<sub>7</sub>

Total number of atoms: 1070

## Extinction coefficients:

Extinction coefficients are in units of M<sup>-1</sup> cm<sup>-1</sup>, 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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