

## ProtParam

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#### User-provided sequence:

10 20 30 40 50 60  
MTKSNGEPEK MGGRMERFQQ GVRKRTLLAK KKVQNITKED VKSYLFRNAF VLLTAVIV  
70 80 90 100  
GTILGFTLRP YRMSYREVKY FSFPGELLMR MLQMLVPLI I

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

Number of amino acids: 101

Molecular weight: 11762.17

Theoretical pI: 10.48

#### Amino acid composition:

[CSV format](#)

Ala (A)	3	3.0%
Arg (R)	9	8.9%
Asn (N)	3	3.0%
Asp (D)	1	1.0%
Cys (C)	0	0.0%
Gln (Q)	4	4.0%
Glu (E)	6	5.9%
Gly (G)	7	6.9%
His (H)	0	0.0%
Ile (I)	5	5.0%
Leu (L)	13	12.9%
Lys (K)	9	8.9%
Met (M)	7	6.9%
Phe (F)	6	5.9%
Pro (P)	4	4.0%
Ser (S)	4	4.0%
Thr (T)	7	6.9%
Trp (W)	0	0.0%
Tyr (Y)	4	4.0%
Val (V)	9	8.9%
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): 7

Total number of positively charged residues (Arg + Lys): 18

#### Atomic composition:

Carbon	C	535
Hydrogen	H	880
Nitrogen	N	144
Oxygen	O	138
Sulfur	S	7

Formula: C<sub>535</sub>H<sub>880</sub>N<sub>144</sub>O<sub>138</sub>S<sub>7</sub>

Total number of atoms: 1704

#### Extinction coefficients:

This protein does not contain any Trp residues. Experience shows that this could result in more than 10% error in the computed extinction coefficient.

Extinction coefficients are in units of  $M^{-1} cm^{-1}$ , at 280 nm measured in water.

Ext. coefficient      5960

Abs 0.1% (=1 g/l)    0.507

**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 37.08

This classifies the protein as stable.

**Aliphatic index:** 98.32

**Grand average of hydropathicity (GRAVY):** -0.019



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