

ProtParam

ProtParam

User-provided sequence:

102030405060

MTKSNGEPEPK MGGRMERFQQ GVRKRTLLAK KKVQNITKED VKSYLFRNAF VLLTVTAVIV

708090100110120

GTILGFTLRP YRMSYREVKY FSFPGELLMR MLQMLVLPLI ISSLVTDNIW LDSLLAIDAR

MLVLRTRRT

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

Number of amino acids: 129

Molecular weight: 14918.87

Theoretical pI: 10.46

Amino acid composition:

CSV format

Ala (A)	5	3.9%
Arg (R)	12	9.3%
Asn (N)	4	3.1%
Asp (D)	4	3.1%
Cys (C)	0	0.0%
Gln (Q)	4	3.1%
Glu (E)	6	4.7%
Gly (G)	7	5.4%
His (H)	0	0.0%
Ile (I)	7	5.4%
Leu (L)	19	14.7%
Lys (K)	9	7.0%
Met (M)	8	6.2%
Phe (F)	6	4.7%
Pro (P)	4	3.1%
Ser (S)	7	5.4%
Thr (T)	11	8.5%
Trp (W)	1	0.8%
Tyr (Y)	4	3.1%
Val (V)	11	8.5%
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): 10
Total number of positively charged residues (Arg + Lys): 21

Atomic composition:

Carbon	C	674
Hydrogen	H	1115
Nitrogen	N	183
Oxygen	O	180
Sulfur	S	8

Formula: C₆₇₄H₁₁₁₅N₁₈₃O₁₈₀S₈
Total number of atoms: 2160

Extinction coefficients:

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

Ext. coefficient	11460
Abs 0.1% (=1 g/l)	0.768

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 39.38
This classifies the protein as stable.

Aliphatic index: 107.21

Grand average of hydropathicity (GRAVY): 0.079



Expasy is operated by the [SIB Swiss Institute of Bioinformatics](#) | [Terms of Use](#)
[Back to the top](#)