ProtParam

ProtParam

User-provided sequence:

```
        10         20         30         40         50         60
XIGFFIAFGI AMGKMGDQAK LMVDFFNILN EIVMKLVIMI MWYSPLGIAC LICGKIIAIK

        70         80         90        100        110        120
DLEVVARQLG MYMVTVIIGL IIHGGIFLPL IYFVVTRKNP FSFFAGIFQA WITALGTASS

       130        140        150        160        170        180
AGTLPVTFRC LEENLGIDKR VTRFVLPVGA TINMDGTALY EAVAAIFIAQ MNGVVLDGGQ

       190        200        210        220        230        240
IVTVSLTATL ASVGAASIPS AGLVTMLLIL TAVGLPTEDI SLLVAVDWLL DRMRTSVNVV

       250        260        270        280        290        300
GDSFGAGIVY HLSKSELDTI DSQHRVHEDI EMTKTQSIYD DMKNHRESNS NQCVYAAHNS

       310        320        330
VIVDECKVTL AANGKSADCS VEEEPWKREK
```

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

Number of amino acids: 330

Molecular weight: 35816.19

Theoretical pI: 5.27

Amino acid composition: [CSV format]

```
Ala (A)   30       9.1%
Arg (R)   10       3.0%
Asn (N)   12       3.6%
Asp (D)   17       5.2%
Cys (C)    6       1.8%
Gln (Q)    8       2.4%
Glu (E)   15       4.5%
Gly (G)   26       7.9%
His (H)    6       1.8%
Ile (I)   33      10.0%
Leu (L)   31       9.4%
Lys (K)   14       4.2%
Met (M)   14       4.2%
Phe (F)   15       4.5%
Pro (P)    8       2.4%
Ser (S)   20       6.1%
Thr (T)   20       6.1%
Trp (W)    4       1.2%
Tyr (Y)    7       2.1%
Val (V)   33      10.0%
Pyl (O)    0       0.0%
Sec (U)    0       0.0%

 (B)       0       0.0%
 (Z)       0       0.0%
 (X)       1       0.3%
```

Total number of negatively charged residues (Asp + Glu): 32
Total number of positively charged residues (Arg + Lys): 24

Atom composition:

As there is at least one ambiguous position (B,Z or X) in the sequence

considered, the atomic composition cannot be computed.

Extinction coefficients:

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

```
Ext. coefficient    32805
Abs 0.1% (=1 g/l)   0.916, assuming all pairs of Cys residues form cystines
```

```
Ext. coefficient    32430
Abs 0.1% (=1 g/l)   0.905, assuming all Cys residues are reduced
```

Estimated half-life:

The N-terminal of the sequence considered is X ().

Due to the presence of an N-terminal ambiguity, the estimated
half-life can not be computed.

Instability index:

The instability index (II) is computed to be 28.85
This classifies the protein as stable.

Aliphatic index: 113.73

Grand average of hydropathicity (GRAVY): 0.533

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Back to the top