Expasy ProtParam (https://web.expasy.org/protparam)

ProtParam - Results

A0A7P0T911_HUMAN (https://www.uniprot.org/uniprotkb/A0A7P0T911) (A0A7P0T911)

Description:

Solute carrier family 1 member 3

Organism:

Homo sapiens (Human)

The computation has been carried out on the complete sequence (70 amino acids).
Warning: All computation results shown below do **not** take into account any annotated post-translational modification.

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

Number of amino acids: 70

Molecular weight: 7921.41
Theoretical pI: 10.17

Amino acid composition: CSV format

Ala (A)	5	7.1%
Arg (R)	5	7.1%
Asn (N)	3	4.3%
Asp (D)	1	1.4%
Cys (C)	1	1.4%
Gln (Q)	3	4.3%
Glu (E)	5	7.1%
Gly (G)	4	5.7%
His (H)	0	0.0%
Ile (I)	2	2.9%
Leu (L)	5	7.1%
Lys (K)	9	12.9%
Met (M)	5	7.1%
Phe (F)	3	4.3%
Pro (P)	2	2.9%
Ser (S)	4	5.7%
Thr (T)	5	7.1%
Trp (W)	0	0.0%
Tyr (Y)	1	1.4%
Val (V)	7	10.0%
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): 6
Total number of positively charged residues (Arg + Lys): 14

Atomic composition:

Carbon	C	346
Hydrogen	H	584
Nitrogen	N	100
Oxygen	O	99
Sulfur	S	6

Formula: $C_{346}H_{584}N_{100}O_{99}S_6$
Total number of atoms: 1135

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 1490
Abs 0.1% (=1 g/l) 0.188, assuming all pairs of Cys residues form cystines

Ext. coefficient 1490
Abs 0.1% (=1 g/l) 0.188, 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 55.78
This classifies the protein as unstable.

Aliphatic index: 75.14
Grand average of hydropathicity (GRAVY):−0.366