

TABLES

		pmol		%	
		16kDa	18kDa	16kDa	18kDa
Nonpolar	Ala	491.69	232.79	8.73	6.28
	Pro	256.85	154.81	4.56	4.18
	Val	369.34	201.61	6.56	5.44
	Met	40.48	74.96	0.72	2.02
	Ile	350.38	176.54	6.22	4.76
	Leu	602.58	369.24	10.70	9.96
	Phe	362.91	250.71	6.44	6.76
Polar, uncharged	Ser	283.56	206.12	5.03	5.56
	Gly	512.36	448.35	9.10	12.09
	His	122.52	76.72	2.18	2.07
	Thr	287.69	183.07	5.11	4.94
	Tyr	254.80	182.46	4.52	4.92
	Cys	250.60	241.20	4.45	6.51
Acidic	Asp	307.10	198.84	5.45	5.36
	Glu	404.33	274.80	7.18	7.41
	Arg	331.03	216.31	5.88	5.83
	Lys	404.68	219.03	7.18	5.91
Total		5632.90	3707.56	100.00	100.00

Table 1. Amino acid composition of 16 kDa and 18 kDa peptides.

SEARCH VALUES:

Species searched: NOTOACMEA SCHRENCKII

Keyword searched: ALL

Name given to unknown protein: 16K

pI: 7.00 Range: (-3.00, 17.00)

Mw: 16000 Range: (15984, 16016)

AMINO ACID COMPOSITION FOR UNKNOWN PROTEIN

Asx:	5.45	Glx:	7.18	Ser:	5.03	His:	2.18	Gly:	9.10
Thr:	5.11	Ala:	8.73	Pro:	4.56	Tyr:	4.52	Arg:	5.88
Val:	6.56	Met:	0.72	Ile:	6.22	Leu:	10.70	Phe:	6.44
Lys:	7.18								

The closest Swiss-Prot entries (in terms of AA composition) for any species:

Rank	Score	Protein	pI	Mw	Description
1	18	TRPA_PYRFU	8.78	27497	Tryptophan synthase alpha chain.
2	19	YQHO_BACSU	9.31	32860	Hypothetical protein yqhO.
3	19	DNC_MOUSE	9.31	35618	Mitochondrial deoxynucleotide carrier.
4	21	TRUA_HELHP	9.65	29095	tRNA pseudouridine synthase A.
5	21	ENTP6_RAT	8.80	49899	Ectonucleoside triphosphate
6	21	DNC_PONPY	9.51	35598	Mitochondrial deoxynucleotide carrier.
7	21	DNC_MACFA	9.67	35724	Mitochondrial deoxynucleotide carrier.
8	21	APT_SYMTH	6.09	18653	Adenine phosphoribosyltransferase.
9	22	GLK_HELPH	8.05	36732	Glucokinase. /FTId=PRO_0000268775.
10	22	TMM68_CHICK	9.04	37968	Transmembrane protein 68.
11	22	GLK_HELPJ	8.05	36759	Glucokinase. /FTId=PRO_0000215129.
12	22	MFTC_MACFA	9.49	35416	Mitochondrial folate transporter/carrier
13	23	MFTC_HUMAN	9.49	35407	Mitochondrial folate transporter/carrier
14	23	GLK_HELPY	7.54	36661	Glucokinase. /FTId=PRO_0000215128.
15	23	ODC_BOVIN	9.65	33108	Mitochondrial 2-oxodicarboxylate carrier
16	23	DGAT2_MOUSE	9.53	43770	Diacylglycerol O-acyltransferase 2.
17	23	CMC1_MOUSE	8.43	74570	Calcium-binding mitochondrial carrier
18	23	DNC_BOVIN	9.31	35112	Mitochondrial deoxynucleotide carrier.
19	24	TRPA_PYRAB	7.83	27288	Tryptophan synthase alpha chain.
20	24	YD1K_SCHPO	9.56	33348	Putative mitochondrial carrier C4G9.20c.

Table 2. Amino acid composition search result on the ExPASy WWW server of 16 kDa peptide

SEARCH VALUES:

Species searched: NOTOACMEA SCHRENCKII

Keyword searched: ALL

Name given to unknown protein: 18K

pI: 7.00 Range: (-3.00, 17.00)

Mw: 18000 Range: (17982, 18018)

AMINO ACID COMPOSITION FOR UNKNOWN PROTEIN

Asx:	5.36	Glx:	7.41	Ser:	5.56	His:	2.07	Gly:	12.09
Thr:	4.94	Ala:	6.28	Pro:	4.18	Tyr:	4.92	Arg:	5.83
Val:	5.44	Met:	2.02	Ile:	4.76	Leu:	9.96	Phe:	6.76
Lys:	5.91								

The closest Swiss-Prot entries (in terms of AA composition) for any species:

Rank	Score	Protein	pI	Mw	Description
1	22	ODC_BOVIN	9.56	33108	Mitochondrial 2-oxodicarboxylate carrier
2	26	TXTP_BOVIN	9.79	32608	Tricarboxylate transport protein.
3	26	DGAT2_HUMAN	9.46	43831	Diacylglycerol O-acyltransferase 2.
4	26	LFTR_DESPS	7.19	25990	Leucyl/phenylalanyl-tRNA--protein
5	27	COLT_DROME	9.56	32952	Congested-like trachea protein.
6	28	ODC_MOUSE	9.73	33229	Mitochondrial 2-oxodicarboxylate carrier
7	30	PSBC_EUGGR	8.97	50710	Photosystem II 44 kDa reaction center
8	30	ODC_RAT	9.43	33279	Mitochondrial 2-oxodicarboxylate carrier
9	30	PSBC_MESVI	6.40	52128	Photosystem II 44 kDa reaction center
10	30	DGAT2_RAT	9.54	43795	Diacylglycerol O-acyltransferase 2.
11	30	DNC_PONPY	9.51	35598	Mitochondrial deoxynucleotide carrier.
12	30	DGAT2_MOUSE	9.53	43770	Diacylglycerol O-acyltransferase 2.
13	30	DNC_MOUSE	9.31	35618	Mitochondrial deoxynucleotide carrier.
14	30	DNC_MACFA	9.67	35724	Mitochondrial deoxynucleotide carrier.
15	31	PSBC_CHLVU	6.54	52048	Photosystem II 44 kDa reaction center
16	31	ADT1_YEAST	9.72	34121	ADP,ATP carrier protein 1.
17	32	TXTP_HUMAN	9.81	32738	Tricarboxylate transport protein.
18	32	MCAT_MOUSE	9.24	33027	Mitochondrial carnitine/acylcarnitine
19	32	BRIX_METAC	5.75	17517	Probable brix domain-containing
20	33	ODC_PONPY	9.69	33286	Mitochondrial 2-oxodicarboxylate carrier

Table 3. Amino acid composition search result on the ExPASy WWW server of 18 kDa peptide