



MASCOT Search Results

Protein View: ACTB_HUMAN

Actin, cytoplasmic 1 OS=Homo sapiens GN=ACTB PE=1 SV=1

Database: SwissProt
 Score: 96
 Expect: 5.2e-06
 Monoisotopic mass (M_r): 42052
 Calculated pI: 5.29
 Taxonomy: [Homo sapiens](#)

Sequence similarity is available as [an NCBI BLAST search of ACTB_HUMAN against nr.](#)

Search parameters

Enzyme: Trypsin: cuts C-term side of KR unless next residue is P.
 Fixed modifications: [Carbamidomethyl \(C\)](#)
 Variable modifications: [Oxidation \(M\)](#)
 Mass values searched: 20
 Mass values matched: 11

Protein sequence coverage: 32%

Matched peptides shown in **bold red**.

```

1  MDDDIAALVV DNGSGMCKAG FAGDDAPRAV FPSIVGRPRH QGVVMVGMGQK
51 DSYVGDEAQS KRGILTLKYP IEHGIVTNWD DMEKIWHHTF YNELRVAPEE
101 HPVLLTEAPL NPKANREKMT QIMFETFNTP AMYVAIQAVL SLYASGRRTG
151 IVMDSGDGVV HTVPIYEGYA LPHAILRLDL AGRDLTDYLM KILTERGYSF
201 TTTAEREIVR DIKEKLCYVA LDFEQEMATA ASSSSLEKSY ELPDGQVITI
251 GNERFRCPEA LFQPSFLGME SCGIHETTFN SIMKCDVDIR KDLYANTVLS
301 GGTTMYPGIA DRMQKEITAL APSTMKIKII APPERKYSVW IGGSILASLS
351 TFQQMWISKQ EYDESGPSIV HRKCF
  
```

Unformatted sequence string: [375 residues](#) (for pasting into other applications).

Sort by ☒ residue number ☐ increasing mass ☐ decreasing mass
 Show ☒ matched peptides only ☐ predicted peptides also

Start - End	Observed	Mr(expt)	Mr(calc)	Delta M	Peptide
19 - 28	976.2500	975.2427	975.4410	-0.1983 0	K.AGFAGDDAPR.A
40 - 50	1171.3400	1170.3327	1170.5638	-0.2311 0	R.HQGVVMVGMGQK.D
40 - 50	1203.9200	1202.9127	1202.5536	0.3591 0	R.HQGVVMVGMGQK.D + 2 Oxidation (M)
51 - 61	1198.6100	1197.6027	1197.5150	0.0878 0	K.DSYVGDEAQS.K
62 - 68	800.3900	799.3827	799.5280	-0.1452 1	K.RGILTLK.Y
85 - 95	1515.5700	1514.5627	1514.7419	-0.1791 0	K.IWHHTFYNELR.V
96 - 113	1953.7700	1952.7627	1953.0571	-0.2944 0	R.VAPEEHPVLLTEAPLNPK.A
197 - 206	1132.3400	1131.3327	1131.5197	-0.1869 0	R.GYSFTTTAER.E
239 - 254	1790.6700	1789.6627	1789.8846	-0.2219 0	K.SYELPDGQVITIGNER.F
292 - 312	2214.8100	2213.8027	2214.0627	-0.2600 0	K.DLYANTVLSGGTTMYPGIADR.M
329 - 336	923.3600	922.3527	922.5600	-0.2072 1	K.IIAPPERK.Y

No match to: 804.1000, 804.4500, 945.3500, 1080.4200, 1123.3300, 1205.9500, 1206.9600, 1208.9500, 1960.6600