

MASCOT SCIENCE Mascot Search Results

Protein View

Match to: **GDIR1_HUMAN** Score: **86** Expect: **4.5e-05**
Rho GDP-dissociation inhibitor 1 OS=Homo sapiens GN=ARHGDIA PE=1 SV=3

Nominal mass (M_r): **23250**; Calculated pI value: **5.02**
NCBI BLAST search of [GDIR1_HUMAN](#) against nr
Unformatted [sequence string](#) for pasting into other applications

Taxonomy: [Homo sapiens](#)

Fixed modifications: Carbamidomethyl (C)
Variable modifications: Oxidation (M)
Cleavage by Trypsin: cuts C-term side of KR unless next residue is P
Number of mass values searched: **8**
Number of mass values matched: **6**
Sequence Coverage: **30%**

Matched peptides shown in **Bold Red**

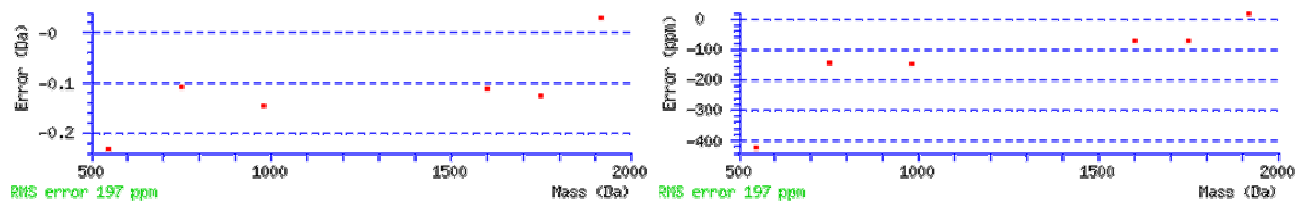
1 MAEQEPTAEQ LAQIAAENEE DEHSVNYKPP AOK**SIQEIQE LDKDDESLR**K
51 YKEALLGRVA VSADPNVNV VVTGLTLVCS SAPGPLELDL TGDLESFKKQ
101 SFVLK**EGVEY** RIKISFRVNR EIVSGMK**YIQ** HTYRKGVKID **KTDYMGVSGY**G
151 **PRAEYEF**LTPVEEAPKGML ARGSYSIKSR FTDDDKTDHL SWEWNLTIKK
201 DWKD

Show predicted peptides also

Sort Peptides By ☒ Residue Number ☐ Increasing Mass ☐ Decreasing Mass

Start - End	Observed	Mr (expt)	Mr (calc)	Delta	Miss	Sequence
34 - 49	1917.9700	1916.9627	1916.9327	0.0300	1	K.SIQEIQELDKDDESLR.K
106 - 111	752.2500	751.2427	751.3501	-0.1073	0	K.EGVEYR.I
128 - 134	980.3500	979.3427	979.4875	-0.1448	0	K.YIQHTYR.K
139 - 152	1601.6500	1600.6427	1600.7555	-0.1128	1	K.IDKTDYMGVSGYPR.A
153 - 167	1751.7100	1750.7027	1750.8301	-0.1274	0	R.AEEYEFLLTPVEEAPK.G
168 - 172	547.0700	546.0627	546.2948	-0.2321	0	K.GMLAR.G

No match to: 621.8300, 2046.0000



AC P52565; B2R5X1; Q6IBM5;
DT 01-OCT-1996, integrated into UniProtKB/Swiss-Prot.
DT 23-JAN-2007, sequence version 3.
DT 03-MAY-2011, entry version 113.
DE RecName: Full=Rho GDP-dissociation inhibitor 1;
DE Short=Rho GDI 1;
DE AltName: Full=Rho-GDI alpha;
GN Name=ARHGDIA; Synonyms=GDI A1;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Primates; Haplorrhini;
OC Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP NUCLEOTIDE SEQUENCE [MRNA].
RX MEDLINE=94085490; PubMed=8262133; DOI=10.1006/excr.1993.1298;
RA Leffers H., Nielsen M.S., Andersen A.H., Honore B., Madsen P.,
RA Vandekerckhove J., Celis J.E.;
RT "Identification of two human Rho GDP dissociation inhibitor proteins
RT whose overexpression leads to disruption of the actin cytoskeleton.";
RL Exp. Cell Res. 209:165-174 (1993).
RN [2]
RP NUCLEOTIDE SEQUENCE [MRNA].
RA Maeda A., Kaibuchi K., Takai Y.;
RT "Molecular cloning of human rho GDI.";
RL Submitted (APR-1993) to the EMBL/GenBank/DDBJ databases.
RN [3]
RP NUCLEOTIDE SEQUENCE [MRNA].
RA Chuang T.H., Bokoch G.M.;
RT "cDNA sequence of human rho GDP dissociation inhibitor.";
RL Submitted (JUL-1992) to the EMBL/GenBank/DDBJ databases.
RN [4]