

MATRIX SCIENCE MASCOT Search Results

Protein View: gi|446370258

glycerol-3-phosphate dehydrogenase [Escherichia coli]

Database: NCBIInr
Score: 62
Nominal mass (M_r): 57087
Calculated pI: 6.99
Taxonomy: Escherichia coli

This protein sequence matches the following other entries:

- gi|388345717 from Escherichia coli O103:H25 str. CVM9340
- gi|606890078 from Escherichia coli O103:H25 str. 2010C-4529
- gi|1937725287 from Escherichia coli

Sequence similarity is available as an NCBI BLAST search of gi|446370258 against nr.

Search parameters

MS data file: U.mgf
Enzyme: Trypsin: cuts C-term side of KR unless next residue is P.
Fixed modifications: Carbamidomethyl (C)
Variable modifications: Oxidation (M)

Protein sequence coverage: 4%

Matched peptides shown in bold red.

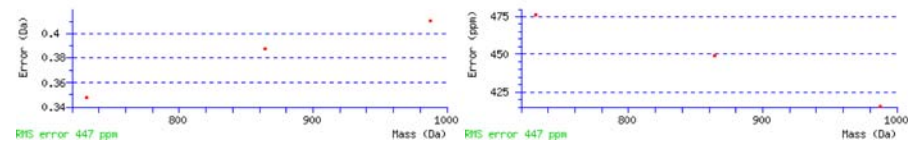
1 METKDLIVIG GGINGAGIAA DAAGRGLSVL MLEAQDLACA TSSASSKLIH
51 GGLRYLEHYE FRLVSEALAE REVLLKMAPI IAFPMRFRLP HRPHLRPAWM
101 IRIGLFMYDH LKGR**TSLPGS TGLA**FGANSV LKPEIKRGFE YSDCWVDDAR
151 LVLANAQMVV RK**GGEVLTR**T HATSARRENG LWIVEARDID TGGKYSWQAR
201 GLVNATGPWV KQFFDEGMHL PSPYIGIRLIK **GSHIVVPR**VH TQKQAYILQN
251 EDKRIVFVIP WMDEFSIIGT TDVEYKGDPK AVKIEESEIN YLLKVYNTHF
301 KKQLSRDDIV WTYSQVRPLC DDES DSPQAI TRDYTLDIHD ENGKAPLLSV
351 FGGKLTTRYK LAEHALEKLT PYYQGIGPAN TKESVLPGGA IEGDRDDYAA
401 RLRRRYPFLT ESLARHYART YGNSSELLLG NAGTVSDLGE DFGHEFYEAE
451 LKYLVDHEWV RRADDALWRR TKQGMWLNAD QQSRVSQWLW EYTQKLSLA
501 SYG

Unformatted sequence string: 503 residues (for pasting into other applications).

Sort peptides by ☒ Residue Number ☐ Increasing Mass ☐ Decreasing Mass

Show predicted peptides also

Query	Start - End	Observed	Mr (expt)	Mr (calc)	Delta	M Score	Expect	Rank	U	Peptide
29	115 - 124	494.9800	987.9454	987.5349	0.4105	0	9	6.2e+002	9	U R.TSLPGSTGLR.F
16	163 - 169	366.3800	730.7454	730.3974	0.3481	0	42	0.12	1	U K.GGEVLTR.T
25	231 - 238	432.9500	863.8854	863.4977	0.3877	0	13	2.3e+002	1	U K.GSHIVVPR.V



LOCUS WP_000448113 503 aa linear BCT 15-MAY-2013
DEFINITION glycerol-3-phosphate dehydrogenase [Escherichia coli].
ACCESSION WP_000448113
VERSION WP_000448113.1
KEYWORDS RefSeq.
SOURCE Escherichia coli
ORGANISM Escherichia coli
Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacterales; Enterobacteriaceae; Escherichia.
COMMENT REFSEQ: This record represents a single, non-redundant, protein sequence which may be annotated on many different RefSeq genomes from the same, or different, species.
COMPLETENESS: full length.
FEATURES
source Location/Qualifiers
1..503
/organism="Escherichia coli"
/db_xref="taxon:562"
Protein 1..503
/product="glycerol-3-phosphate dehydrogenase"
/calculated_mol_wt=56821
Region 27..501
/region_name="glpD"
/note="glycerol-3-phosphate dehydrogenase; Reviewed; PRK12266"
/db_xref="CDD:237027"
Region 381..>471
/region_name="DAO_C"
/note="C-terminal domain of alpha-glycerophosphate oxidase; pfam16901"
/db_xref="CDD:293506"

Mascot: <http://www.matrixscience.com/>