

Glutaredoxin-C5, chloroplastic (GRXC5), Recombinant Protein

Cat RP05426

Size 0.02 mg (E-Coli)/ 0.1 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 1 mg (E-Coli)/ 0.02 mg

Species (Mammalian-Cell)/ 0.1 mg (Baculovirus)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)
Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant Arabidopsis thaliana Glutaredoxin-C5, chloroplastic (GRXC5)

Product Gene Name

GRXC5 recombinant protein

Product Synonym Gene Name

GRXC5

Purity

Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)

Sequence

CTEVKTLFKR LGVQPLVVEL DQLGPQGPQL QKVLRLTGQ HTVPNVFVCG KHIGGCTDTV KLNKRGDLEL
MLAEANGKNG QS

Sequence Positions

93-174, Full length protein

Format

Lyophilized or liquid (Format to be determined during the manufacturing process)

Host

E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight

18,814 Da

Storage

Store at -20°C. For long-term storage, store at -20°C or -80°C. Store working aliquots at 4°C for up to one week. Repeated freezing and thawing is not recommended.

Protein Family

Glutaredoxin

NCBI Accession

NP_194602.2

NCBI GI

30688093

NCBI GenBank Nucleotide

NM_119017.5

NCBI GeneID

828994

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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Cat *RP05426*

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(Mammalian-Cell)/ 0.1 mg (Baculovirus)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)
Glutaredoxin family protein

NCBI Official Symbol

GrxC5

NCBI Official Synonym Symbols

F16A16.160; F16A16_160; glutaredoxin C5

NCBI Protein Information

Glutaredoxin family protein

NCBI Summary

Encodes a glutaredoxin GrxC5. GrxC5 exists as two forms when expressed in Escherichia coli. The monomeric apoprotein possesses deglutathionylation activity mediating the recycling of plastidial methionine sulfoxide reductase B1 and peroxiredoxin IIE, whereas the dimeric holoprotein incorporates a [2Fe-2S] cluster.

UniProt Gene Name

GRXC5

UniProt Synonym Gene Names

AtGrxC5

UniProt Protein Name

Glutaredoxin-C5, chloroplastic

UniProt Primary Accession

Q8GWS0

UniProt Secondary Accession

Q9SVU1

UniProt Related Accession

Q8GWS0

UniProt Comments

Has a glutathione-disulfide oxidoreductase activity in the presence of NADPH and glutathione reductase. Reduces low molecular weight disulfides and proteins. Can assemble a [2Fe-2S] cluster, but cannot transfer it to an apoferrredoxin.

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