

Diaminopimelate decarboxylase 2, chloroplastic (LYSA2), Recombinant Protein

Cat *RP05092*

Size 0.02 mg (*E-Coli*)/ 0.02 mg (*Yeast*)/ 0.1 mg (*E-Coli*)/ 0.1 mg
(*Yeast*)/ 0.02 mg (*Baculovirus*)/ 0.02 mg (*Mammalian-Cell*)/ 0.1

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

Full Product Name

Recombinant *Arabidopsis thaliana* Diaminopimelate decarboxylase 2, chloroplastic (LYSA2)

Product Gene Name

LYSA2 recombinant protein

Product Synonym Gene Name

LYSA2

Purity

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

Sequence

AAVSQNSTKT LTKESASSFD HCFKKSSDGF LYCEGTKVQD IMETVEKRPF YLYSKPQITR NLEAYKEALE
GVRSVIGYAI KANNLKILE HLRSLGCGAV LVSGNELRLA LLAGFDPTKC IFNGNGKSLE DLVLAAQEGV
FVNVDSEFDL NNIVEASRIS GKQVNVLLRI NPDVDPQVHP YVATGNKNSK FGIRNEKLQW FLDEVKAHPK
ELKLVGAHCH LGSTITKVDI FRDAAVLMIE YIDEIRRQGF EVSYLNIGGG LGIDYYHAGA VLPTPMDLIN
TVRELVLSRD LNLIEPGRS LIANTCCFVN HVTGVKTNGT KNFIVIDGSM AELIRPSLYD AYQHIELVSP
TPPEAEVTKF DVGVPVCESA DFLGKDRELP TPPQGAGLVV HDAGAYCMSM ASTYNLKMMP PEYWVEEDGS
ITKIRHAETF DDHLRFFEGL

Sequence Positions

50-489, 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

54,164 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

Diaminopimelate decarboxylase

NCBI Accession

NP_568252.1

NCBI GI

18416698

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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

mg (Baculovirus)/ 1 mg (E-Coli)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Yeast)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)
NCBI GenBank Nucleotide # NM_121226.5

NCBI GeneID

831061

NCBI Official Full Name

Pyridoxal-dependent decarboxylase family protein

NCBI Official Symbol

AT5G11880

NCBI Official Synonym Symbols

F14F18.50; F14F18_50

NCBI Protein Information

Pyridoxal-dependent decarboxylase family protein

UniProt Gene Name

LYSA2

UniProt Synonym Gene Names

diDi 18A-1f; DAP decarboxylase 2; DAPDC 2

UniProt Protein Name

Diaminopimelate decarboxylase 2, chloroplastic

UniProt Primary Accession

Q94A94

UniProt Secondary Accession

Q9LYI5; Q9SCX0

UniProt Related Accession

Q94A94

UniProt Comments

Specifically catalyzes the decarboxylation of meso-diaminopimelate (meso-DAP) to L-lysine.

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