Bidirectional sugar transporter SWEET16 (SWEET16), Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP08665*

Size *0.02 mg/ 0.1 mg/ 5x0.1 mg*

Species
Arabidopsis thaliana (Mouse-ear cress)

Full Product Name
Recombinant Arabidopsis thaliana Bidirectional sugar transporter SWEET16 (SWEET16)

Product Gene Name
SWEET16 recombinant protein

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

Sequence
MADLSFYVGV IGNVISVLVF LSPVETFWRI VQRRSTEEYE CFPYICTLMS SSLWTYYGIV TPGEYLVSTV NGFGALAESI YVLIFLFFVP KSRFLKTVVV VLALNVCFPV IAIAGTRTLF GDANSRSSSM GFICATLNII MYGSPLSAIK TVVTTRSVQF MPFWLSFFLF LNGAIWGVYA LLLHDMFLLV PNGMGFFLGI MQLLIYAYYR NAEPIVEDEE GLIPNQPLLA

Sequence Positions
1-230aa; full length protein

Format
Liquid containing glycerol

Host
Cell Free Expression

Molecular Weight
25,744 Da

Storage
Store at -20℃, for extended storage, conserve at -20℃ or -80℃.Repeated freezing and thawing is not recommended. Store working aliquots at 4℃ for up to one week.

Protein Family
Bidirectional sugar transporter

NCBI Accession
NP_188291.2

NCBI GI
30684193

NCBI GenBank Nucleotide
NM_112542.4

NCBI GeneID
820921

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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NCBI Official Full Name
bidirectional sugar transporter SWEET16

NCBI Official Symbol
AT3G16690

NCBI Protein Information
bidirectional sugar transporter SWEET16

UniProt Gene Name
SWEET16

UniProt Synonym Gene Names
AtSWEET16

UniProt Protein Name
Bidirectional sugar transporter SWEET16

UniProt Synonym Protein Names
Protein SUGARS WILL EVENTUALLY BE EXPORTED TRANSPORTERS 16

UniProt Entry Name
SWT16_ARATH

UniProt Primary Accession
Q9LUR4

UniProt Related Accession
Q9LUR4

UniProt Comments
Mediates both low-affinity uptake and efflux of sugar across the vacuolar membrane. Regulates sugars homeostasis in leaves and roots by exporting/importing them through the tonoplast regarding metabolic demand (PubMed:24028846). Acts as a vacuolar hexose transporter, such as glucose (Glc), fructose (Fru), and sucrose (Suc) (PubMed:25988582, PubMed:24381066, PubMed:24028846).

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