

Gibberellin receptor GID1B (GID1B), Recombinant Protein

Cat RP05107

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

Species mg (Baculovirus)/ 1 mg (E-Coli)/ 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 Gibberellin receptor GID1B (GID1B)

Product Gene Name

GID1B recombinant protein

Product Synonym Gene Name

GID1B

Purity

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

Sequence

MAGGNEVNLN ECKRIVPLNT WVLISNFKLA YKVLRRPDGS FNRDLAEFLD RKVPANSFPL DGVFSFDHVD
STTNLLTRIY QPASLLHQTR HGTLELTKPL STTEIVPVL1 FFHGGSFTHS SANSAIYDTF CRRLVTICGV
VVVSVDYRRS PEHRYPCAYD DGWNALNWVK SRVWLQSGKD SNVYVYLAGD SSGGNIAHNV AVRATNEGVK
VLGNILLHPM FGGQERTQSE KTLDGKYFVT IQDRDWYWRA YLPEGEDRDH PACNPFGPRG QSLKGVNFPK
SLVVVAGLDL VQDWQLAYVD GLKKTGLEVN LLYLKQATIG FYFLPNNDHF HCLMEELNKF VHSIEDSQSK
SSPVLLTP

Sequence Positions

1-358, 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

40,300 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

Gibberellin receptor

NCBI Accession

NP_191860.1

NCBI GI

15229371

NCBI GenBank Nucleotide

NM_116166.5

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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(Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1

NCBI GeneID 825476
mg (Baculovirus)/ 1 mg (E-Coli)/ 1 mg (Yeast)/ 0.1 mg
(Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-
Cell)

NCBI Official Full Name

alpha/beta-Hydrolases superfamily protein

NCBI Official Symbol

GID1B

NCBI Official Synonym Symbols

ATGID1B; GA INSENSITIVE DWARF1B

NCBI Protein Information

alpha/beta-Hydrolases superfamily protein

NCBI Summary

Encodes a gibberellin (GA) receptor ortholog of the rice GA receptor gene (OsGID1). Has GA-binding activity, showing higher affinity to GA4. Interacts with DELLA proteins in vivo in the presence of GA4.

UniProt Gene Name

GID1B

UniProt Synonym Gene Names

CXE14; GID1L2; AtGID1B

UniProt Protein Name

Gibberellin receptor GID1B

UniProt Synonym Protein Names

AtCXE14; Carboxylesterase 14; GID1-like protein 2; Protein GA INSENSITIVE DWARF 1B; AtGID1B

UniProt Primary Accession

Q9LYC1

UniProt Secondary Accession

Q0WRW2

UniProt Related Accession

Q9LYC1

UniProt Comments

Functions as soluble gibberellin (GA) receptor. GA is an essential hormone that regulates growth and development in plants. Binds with high affinity the biologically active gibberellin GA4, but has no affinity for the biologically inactive GAs. In response to GA, interacts with specific DELLA proteins, known as repressors of GA-induced growth, and targets them for degradation via proteasome. Seems to be required for GA signaling that controls root growth, seed germination and flower development. May function as a dominant GA receptor at low GA concentrations in germination. Partially redundant with GID1A and GID1C.

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