IAA-Amino Acid Hydrolase ILR1-Like 4 (ILL4) Arabidopsis Thaliana Recombinant Protein

PRODUCT OVERVIEW

Product Name	IAA-amino acid hydrolase ILR1-like 4 (ILL4), Recombinant Protein
Full Product Name	Recombinant Arabidopsis thaliana IAA-amino acid hydrolase ILR1-like 4 (ILL4)
Product Gene Name	ILL4 recombinant protein
Sequence	SSNGLSQIPS KFLTLAKRND FFDWMVGIRR RIHENPELGY EEVETSKLVR AELEKMGVSY KYPVAVTGVV GYVGTGHAPF VALRADMDAL AMQEMVEWEH KSKVPGKMHA CGHDAHTTML LGAAKLLKEH EEELQGTVVL VFQPAEEGGG GAKKIVEAGV LENVSAIFGL HVTNQLALGQ VSSREGPMLA GSGFFKAKIS GKGGHAALPQ HTIDPILAAS NVIVSLQHLV SREADPLDSQ VVTVAKFEGG GAFNVIPDSV TIGGTFRAFS TKSFMQLKKR IEQVITRQAS VNMCNATVDF IEEEKPFFPP TVNDKALHQF FKNVSGDMLG IENYVEMQPL MGSEDFSFYQ QAIPGHFSFV GMQNKARSPM ASPHSPYFEV NEELLPYGAS LHASMATRYL LELKASTLNK SNKKDEL
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	48,263 Da
Sequence Positions	24-440, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for O04373
Species	Arabidopsis thaliana (Mouse-ear cress)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ILL4 recombinant protein	MBS1259889 is a recombinant protein targeting ILL4. Also known as Recombinant Arabidopsis thaliana IAA-amino acid hydrolase ILR1-like 4 (ILL4). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of ILL4 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ILL4. It may not necessarily be applicable to this product.

NCBI GI #	15218027
NCBI GeneID	841602
NCBI Accession #	NP_175587.1
UniProt Primary Accession #	O04373
UniProt Secondary Accession #	O81642

UniProt Related Accession #	O04373
GenBank Nucleotide #	NM_104055.4
NCBI Official Full Name	peptidase M20/M25/M40 family protein
NCBI Official Symbol	IAR3
NCBI Official Synonym Symbols	F19C24.4; F19C24_4; IAA-ALA HYDROLASE; IAA-ALANINE RESISTANT 3; JASMONIC ACID RESPONSIVE 3; JR3
UniProt Protein Name	IAA-amino acid hydrolase ILR1-like 4
UniProt Synonym Protein Names	jasmonoyl-L-amino acid hydrolase
Protein Family	IAA-amino acid hydrolase
UniProt Gene Name	ILL4
NCBI Protein Information	peptidase M20/M25/M40 family protein
NCBI Summary for ILL4	encodes a member of the six Arabidopsis IAA-amino acid conjugate hydrolase subfamily and conjugates and conjugates IAA-Ala in vitro. Gene is expressed most strongly in roots, stems, and flowers.
UniProt Comments for ILL4	Hydrolyzes certain amino acid conjugates of the plant growth regulator indole-3-acetic acid (IAA), including IAA-Ala, IAA-Asn, IAA-Cys, IAA-Glu, IAA-Met, IAA-Ser and IAA-Gly (PubMed:10072397, PubMed:11923288). Has a lower efficiency with IAA-Phe, IAA-Leu and IAA-Val and no activity with IAA-Ile (PubMed:10072397, PubMed:11923288). Important for IAA-Leu hydrolysis in roots (PubMed:15155875). Also hydrolyzes amino acid conjugates of jasmonic acid and 12-hydroxy jasmonic acid (PubMed:24052260).
Research Articles on ILL4	**1.** Data suggest distinct physiological roles of redox-active Cys residues in AtSS1 including diurnal activity regulation directly linked to photosynthesis as well as stress-related protection of AtSS1.
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