Ethylene Response Sensor 1 (ERS1) Arabidopsis Thaliana Recombinant Protein

PRODUCT OVERVIEW

Product Name	Ethylene response sensor 1 (ERS1), Recombinant Protein
Full Product Name	Recombinant Arabidopsis thaliana Ethylene response sensor 1 (ERS1)
Product Gene Name	ERS1 recombinant protein
Product Synonym Gene Name	ERS
Sequence	MESCDCFETH VNQDDLLVKY QYISDALIAL AYFSIPLELI YFVQKSAFFP YKWVLMQFGA FIILCGATHF INLWMFFMHS KAVAIVMTIA KVSCAVVSCA TALMLVHIIP DLLSVKNREL FLKKKADELD REMGLILTQE ETGRHVRMLT HGIRRTLDRH TILRTTLVEL GKTLCLEECA LWMPSQSGLY LQLSHTLSHK IQVGSSVPIN LPIINELFNS AQAMHIPHSC PLAKIGPPVG RYSPPEVVSV RVPLLHLSNF QGSDWSDLSG KGYAIMVLIL PTDGARKWRD HELELVENVA DQVAVALSHA AILEESMHAR DQLMEQNFAL DKARQEAEMA VHARNDFLAV MNHEMRTPMH AIISLSSLLL ETELSPEQRV MIETILKSSN LVATLISDVL DLSRLEDGSL LLENEPFSLQ AIFEEVISLI KPIASVKKLS TNLILSADLP TYAIGDEKRL MQTILNIMGN AVKFTKEGYI SIIASIMKPE SLQELPSPEF FPVLSDSHFY LCVQVKDTGC GIHTQDIPLL FTKFVQPRTG TQRNHSGGGL GLALCKRFVG LMGGYMWIES EGLEKGCTAS FIIRLGICNG PSSSSGSMAL HLAAKSQTRP WNW
Host	Cell Free Expression
Form/Format	Liquid containing glycerol
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C. Repeated freezing and thawing is not recommended. Store working aliquots at 4 degree C for up to one week.
Molecular Weight	68,333 Da
Sequence Positions	1-613aa; full length protein
3D Structure	ModBase 3D Structure for Q38846
Species	Arabidopsis thaliana (Mouse-ear cress)
Product Categories/Family for ERS1 recombinant protein	Transmembrane Protein
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Application Notes for ERS1 recombinant protein	This is a recombinant transmembrane protein expressed in a cell-free expression system.
Related Product Information for ERS1 recombinant protein	MBS7014381 is a recombinant protein targeting ERS1. Also known as Recombinant Arabidopsis thaliana Ethylene response sensor 1 (ERS1). Host: Cell Free Expression.
Other Notes	Small volumes of ERS1 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 ERS1. It may not necessarily be applicable to this product.

NCBI GI #	15226788
NCBI GeneID	818693
NCBI Accession #	NP_181626.1

UniProt Primary Accession #	Q38846
UniProt Related Accession #	Q38846
GenBank Nucleotide #	NM_129658.3
NCBI Official Full Name	ethylene response sensor 1
NCBI Official Symbol	ERS1
NCBI Official Synonym Symbols	ERS; ERS1; ETHYLENE RESPONSE SENSOR; ethylene response sensor 1; T20B5.14; T20B5_14
UniProt Protein Name	Ethylene response sensor 1
UniProt Synonym Protein Names	Protein ERS1
Protein Family	Cystine transporter
UniProt Gene Name	ERS1
UniProt Synonym Gene Names	ERS; AtERS1
UniProt Entry Name	ERS1_ARATH
NCBI Protein Information	ethylene response sensor 1
NCBI Summary for ERS1	Ethylene receptor, subfamily 1. Has histidine kinase activity.
UniProt Comments for ERS1	Ethylene receptor related to bacterial two-component regulators. Acts as a redundant negative regulator of ethylene signaling.
Research Articles on ERS1	**1.** Galpha mediates ethylene-induced stomatal closure via H2O2 production, and acts downstream of RAN1, ETR1, ERS1, EIN4 and CTR1 and upstream of EIN2, EIN3 and ARR2. The data also show that ETR1 and ERS1 mediate both ethylene and H2O2 signalling in guard cells.
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