Ecdysone 20-Monooxygenase (shd) Drosophila Melanogaster Recombinant Protein

PRODUCT OVERVIEW

Product Name	Ecdysone 20-monooxygenase (shd), Recombinant Protein
Full Product Name	Recombinant Drosophila melanogaster Ecdysone 20-monooxygenase (shd), partial
Product Gene Name	shd recombinant protein
Product Synonym Gene Name	shd
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	49,017 Da
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 Q9VUF8
Species	Drosophila melanogaster (Fruit fly)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for shd recombinant protein	MBS1448907 is a recombinant protein targeting shd. Also known as Recombinant Drosophila melanogaster Ecdysone 20-monooxygenase (shd), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of shd 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 shd. It may not necessarily be applicable to this product.

NCBI GI #	442632322
NCBI GeneID	39592
NCBI Accession #	NP_001261843.1
UniProt Primary Accession #	Q9VUF8
UniProt Secondary Accession #	Q8T483
UniProt Related Accession #	Q9VUF8
GenBank Nucleotide #	NM_001274914.1
NCBI Official Full Name	shade, isoform D
NCBI Official Synonym Full Names	shade

NCBI Official Symbol	shd
NCBI Official Synonym Symbols	314a1; CG13478; cyp314a1; Cyp314a1; CYP314A1; DmelCG13478
UniProt Protein Name	Ecdysone 20-monooxygenase
UniProt Synonym Protein Names	CYPCCCXIVA1; Cytochrome P450 314a1, mitochondrial; Protein shade
Protein Family	Ecdysone 20-monooxygenase
UniProt Gene Name	shd
UniProt Synonym Gene Names	CYP314A1; E20MO
NCBI Protein Information	CG13478 gene product from transcript CG13478-RD
UniProt Comments for shd	Required for CNS development; midline glial cells. Involved in the metabolism of insect hormones; responsible for all ecdysone 20-monooxygenase activity during embryonic, larval and adult stages. May be involved in the breakdown of synthetic insecticides.
Research Articles on shd	**1.** The timing of shade expression is determined by its transcriptional activator betaFtz-f1. The betaftz-f1 gene is activated after a decline in the expression of its transcriptional repressor Blimp-1.
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