# Flavonoid 3',5'-Hydroxylase (CYP75A5), Partial (CYP75A5) Eustoma Exaltatum Subsp. Russellianum Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Flavonoid 3',5'-hydroxylase (CYP75A5), partial, Recombinant Protein |
| **Full Product Name** | Recombinant Eustoma exaltatum subsp. russellianum Flavonoid 3',5'-hydroxylase (CYP75A5), partial |
| **Product Gene Name** | CYP75A5 recombinant protein |
| **Product Synonym Names** | Flavonoid 3',5'-hydroxylase; F3'5'H; EC=1.14.13.88; Cytochrome P450 75A5 |
| **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** | 56,894 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 Q96418 |
| **Species** | Eustoma exaltatum subsp. russellianum (Bluebells) (Eustoma grandiflorum) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for CYP75A5 recombinant protein** | MBS1454327 is a recombinant protein targeting CYP75A5. Also known as Recombinant Eustoma exaltatum subsp. russellianum Flavonoid 3',5'-hydroxylase (CYP75A5), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of CYP75A5 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 CYP75A5. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 5915818 |
| **NCBI Accession #** | Q96418.1 |
| **UniProt Primary Accession #** | Q96418 |
| **NCBI Official Full Name** | Flavonoid 3',5'-hydroxylase |
| **UniProt Protein Name** | Flavonoid 3',5'-hydroxylase |
| **UniProt Synonym Protein Names** | Cytochrome P450 75A5 |
| **UniProt Gene Name** | CYP75A5 |

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| **UniProt Synonym Gene Names** | F3'5'H |
| **UniProt Entry Name** | C75A5_EUSER |
| **UniProt Comments for CYP75A5** | Catalyzes the 3'5'-hydroxylation of naringenin and eriodictyol to form 5,7,3,'4',5'-pentahydroxyflavanone and 3',5'-hydroxylation of dihydrokaempferol and dihydroquercetin to form dihydromyricetin. |
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