

## UGT89C1 Protein, Arabidopsis thaliana, Recombinant (E. coli, His)

### General Information

Synonyms:	UDP-glycosyltransferase 89C1;UGT89C1;Flavonol 7-O-rhamnosyltransferase;UDP-rhamnose: flavonol 7-O-rhamnosyltransferase
Protein Construction:	1-435 aa
Species:	Arabidopsis thaliana
Expression Host:	E. coli
Accession:	Q9LNE6
Molecular Weight:	51.6 kDa (predicted)
AA Sequence:	<pre>MTTTTTKKPHVLVIPFPQSGHMVPHLDLTHQILLRGATVTVLVTPKNSSYLDALRSLHSPEHFKTLILPFP SHPCI PSGVESLQQLPLEAIVHMF DALSR LHDPLVDFLSRQPPSDLPDAILGSSFLSPWINKVADAFSISISFLPINAH SISVMWAQEDRSFFNDLETATTESYGLVINSFYDLEPEFVETVKTRFLNHHRIWTVGPLL PFKAGVDRGGQSSI PPAKVSAWLDSCPEDNSVVYVGFSGSIRLTAEQTAALAAALEKSSVRFIWA VRDAAKKNSSD NSVEEDVIP AGFEERVKEKGLVIRGWAPQTMILEHRAVGSYLTHL GWGVS VLEGMVGGV MLLAWPMQADHFFNTTLIVDKL RAAVRVGENRDSVPDSDKLARILAESAREDLPERV TLMKLRKAMEAIKEGGSSYKNLDELVAEMCL</pre>

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

### Preparation and Storage

#### Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Flavonol 7-O-rhamnosyltransferase that catalyzes the transfer of rhamnose from UDP-rhamnose to the 7-OH

position of 3-O-glycosylated flavonols, such as kaempferol 3-O-rhamnoside, kaempferol 3-O-glucoside, quercetin 3-O-glucoside, quercetin 3-O-galactoside, quercetin 3-O-rhamnoside and isorhamnetin 3-O-glucoside. Is able to glycosylate the flavonols quercetin and kaempferol to yield quercetin 7-O-rhamnoside and kaempferol 7-O-rhamnoside. Shows a strict specificity for UDP-rhamnose as sugar donor. Does not act on 3-O-glycosylated anthocyanins. The accumulation of kaempferol 3-O-rhamnoside-7-O-rhamnoside inhibits basipetal auxin transport, which influences auxin distribution and plant organ development.

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