

# Cyanohydrin beta-glucosyltransferase (UGT85B1), Recombinant Protein

Cat RP20133

Size 0.02 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (E-Coli)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1

mg (Baculovirus)/ 1 mg (E-Coli)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)  
Sorghum bicolor (Sorghum) (Sorghum vulgare)

## Full Product Name

Recombinant Sorghum bicolor Cyanohydrin beta-glucosyltransferase (UGT85B1)

## Product Gene Name

UGT85B1 recombinant protein

## Product Synonym Gene Name

UGT85B1

## Purity

Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)

## Sequence

MGSNAPPPPT PHVVLVPPFG QGHVAPLMQL ARLLHARGAR VTFVYTQYNY RRLLRKAGEA AVRPPATSSA  
RFRIEVIDDG LLSLVPQNDV GGLVDSL RKN CLHPFRALLR RLGQEVEGQD APPVTCVVDG VVMTFAAAAA  
REAGIPEVQF FTASACGLLG YLHYGELVER GLVPFRDASL LADDDYLDTP LEWVPGMSHM RLRDMPTFCR  
TTDPDDVMVS ATLQQMESAA GSKALILNTL YELEKDVVDA LAFFPPIYT VGPLAEVIAS SDSASAGLAA  
MDISIWQEDT RCLSWLDGKP AGSVVYVNFV SMAVM TAAQA REFALGLASC GSPFLWVKRP DVVEGEEVLL  
PEALLDEVAR GRGLVVPWCP QAAVLKHA AV GLFVSHCGWN SLLEATAAGQ PVLAWPCHGE QTTNCRQLCE  
VWGNGAQLPR EVESGAVARL VREMMVGD LG KEKRAKAAEW KAAAEAAARK GGASWRNVER  
VVNDLLL VGG KQ

## Sequence Positions

1-492, Full length protein

## Format

Lyophilized or liquid (Format to be determined during the manufacturing process)

## Host

E Coli or Yeast or Baculovirus or Mammalian Cell

## Molecular Weight

52,916 Da

## Storage

Store at -20°C. For long-term storage, store at -20°C or -80°C. Store working aliquots at 4°C for up to one week. Repeated freezing and thawing is not recommended.

## Protein Family

Cyanohydrin beta-glucosyltransferase

## NCBI Accession #

XP\_002463518.1

## NCBI GI #

242032247

**FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY**

# Cyanohydrin beta-glucosyltransferase (UGT85B1), Recombinant Protein

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Size *0.02 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (E-Coli)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1 mg (Baculovirus)/ 1 mg (E-Coli)/ 1 mg (Yeast)/ 0.1 mg*

**NCBI GenBank Nucleotide #**  
*U00096.2 (E-Coli), U00097.2 (Yeast), U00098.2 (Baculovirus), U00099.2 (Mammalian-Cell), XM\_002463071.2*

## NCBI GeneID

8060874

## NCBI Official Full Name

cyanohydrin beta-glucosyltransferase

## NCBI Official Symbol

LOC8060874

## NCBI Official Synonym Symbols

HMNGT; UGT85B1

## NCBI Protein Information

cyanohydrin beta-glucosyltransferase

## UniProt Gene Name

UGT85B1

## UniProt Synonym Gene Names

HMNGT

## UniProt Protein Name

Cyanohydrin beta-glucosyltransferase

## UniProt Synonym Protein Names

UDP-glucose-p-hydroxymandelonitrile glucosyltransferase

## UniProt Primary Accession #

Q9SBL1

## UniProt Related Accession #

Q9SBL1

## UniProt Comments

Involved in the biosynthesis of the cyanogenic glucoside dhurrin. Prevents the dissociation and release of toxic hydrogen cyanide. Mandelonitrile, p-hydroxymandelonitrile, benzyl alcohol, benzoic acid and geraniol, but not hydroquinone(1,4-benzenediol), alpha-terpinol, linalool or farnesol are utilized as acceptor substrates. UDP-glucose, but not UDP-xylose or UDP-glucuronic acid can be used as sugar donor.

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