

Os03g0263600 Protein, *Oryza sativa* subsp. *japonica* (Cell-Free, His)

Cat. No.:	HY-P702407
Synonyms:	Os03g0263600 protein
Species:	Others
Source:	E. coli Cell-free
Accession:	Q84Q89 (M1-D427)
Gene ID:	4332335
Molecular Weight:	51.8 kDa

PROPERTIES

AA Sequence

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M E E K K Q Q Q R   P Q R G R D G I L Q   Y P H L F F A A L A   L A L L L T D P F H
L G P L A G V D Y R   P V R H E L A P Y R   E V M A R W P R D N   G S R L R H G R L E
F V G E V F G P E S   I E F D R H G R G P   Y A G L A D G R V V   R W M G E D A G W E
T F A V M S P D W S   E K V C A N G V E S   T T K K Q H E M E R   R C G R P L G L R F
H G E T G E L Y V A   D A Y Y G L M S V G   P N G G V A T S L A   R E V G G S P V N F
A N D L D I H R N G   S V F F T D T S T R   Y N R K D H L N V L   L E G E G T G R L L
R Y D P E T K A A H   V V L S G L V F P N   G V Q I S D D Q Q F   L L F S E T T N C R
I M R Y W L E G P R   A G Q V E V F A D L   P G F P D N V R L S   S G G G G G R F W V
A I D C C R T A A Q   E V F A K R P W L R   T L Y F K L P L T M   R T L G K M V S M R
M H T L V A L L D G   E G D V V E V L E D   R G G E V M R L V S   E V R E V G R K L W
I G T V A H N H I A   T I P Y P L E E Q S   S S N V L G D
  
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Appearance Lyophilized powder.

Formulation Lyophilized from a 0.22 μ m filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Endotoxin Level <1 EU/ μ g, determined by LAL method.

Reconstitution It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH₂O. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.

Storage & Stability Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

The Os03g0263600 Protein is a crucial member of the strictosidine synthase family, emphasizing its essential role in plant alkaloid biosynthesis. As part of this family, Os03g0263600 likely shares conserved structural and functional features with related proteins, signifying its involvement in catalyzing the formation of strictosidine, a key precursor in alkaloid metabolism. The classification within the strictosidine synthase family underscores its specific designation within the broader context of plant secondary metabolism, providing insights into its unique enzymatic functions. The study of Os03g0263600 contributes to our understanding of its role in cellular processes related to alkaloid biosynthesis, offering potential applications in crop improvement and a deeper comprehension of its broader impact on plant defense mechanisms. Further exploration of Os03g0263600's role holds promise for enhancing our knowledge of its contributions to both normal plant physiology and responses to environmental challenges.

Caution: Product has not been fully validated for medical applications. For research use only.

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