

## Beta-amylase 1, chloroplastic Protein, Arabidopsis thaliana, Recombinant (His &amp; Myc)

## General Information

Synonyms:	BM7;BAM1;1,4-alpha-D-glucan maltohydrolase;Thioredoxin-regulated beta-amylase (TR-BAMY);chloroplastic;Beta-amylase 1, chloroplastic;TRBAMY;Beta-amylase 7
Protein Construction:	42-354 aa
Species:	Arabidopsis thaliana
Expression Host:	E. coli
Accession:	Q9LIR6
Molecular Weight:	41.7 kDa (predicted)
AA Sequence:	AMNRNYKAHGTDPSPPMSPILGATRADLSVACKAFAVENIGITIEEQRTYREGGIGGKKEGGGVPVFMMP LDSVTMGNTVNRKAMKASLQALKSAGVEGIMIDVWWGLVEKESPGTYNWGGYNELLELAKKLGLKVQAV MSFHQCGGNVGDSTIPLPQWVVEVDKDPDLAYTDQWGRRNHEYISLGADTLPLKGRTPVQCYADFMR AFRDNFKHLLGETIVEIQVGMGPAGELRYPSPYEQEGTWKFPGIGAFQCYDKYLSLSSKAAAETYGKPEWGST GPTDAGHYNNWPEDTQFFKKEGGGWNSE

## 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 &amp; 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

Beta-amylase activity. Can use p-nitrophenyl maltopentaoside (PNPG5) as substrate only in reduced form. Can play a minor role in the starch degradation and maltose metabolism in chloroplasts during the night. More active

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on phosphorylated glucan. Interacts directly with starch or other alpha-1,4-glucan.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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