Data Sheet (Cat.No.TMPH-03464)

SUS1 Protein, S. cerevisiae, Recombinant (His & SUMO)

General Information

Synonyms: Sucrose synthase;SUS1;Sucrose-UDP glucosyltransferase

Protein Construction: 1-218 aa

Species: Saccharum officinarum

Expression Host: E. coli

Accession: P31925

Molecular Weight: 41.3 kDa (predicted)

AA Sequence: ARLDRVKNMTGPVEISGKKARLRELANPVIVAGDHGKESKDRDEAEEQGGFKKMYSLIDDYKFKGHIRLISAQ MNRVRNGELYQYICDTKGAFVQPAYEAFRLDCDRVHEVRSAKDRDLPWRPCEIIADGVSGLHIDPYHSDKDA DILVNFFDKCNADPSYWDEISQGGQRIYEKYTWKLYSERLMTLTGAYGFWNYVSKLERGDTRYIDMFYALEYP

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: > 90% 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

Sucrose-cleaving enzyme that provides UDP-glucose and fructose for various metabolic pathways.

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