

## SPT16 Protein, Arabidopsis thaliana, Recombinant (His & SUMO)

### General Information

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|-----------------------|--|
| Synonyms:             | Facilitates chromatin transcription complex subunit SPT16;FACT complex subunit SPT16; SPT16  |
| Protein Construction: | 890-1074 aa  |
| Species:              | Arabidopsis thaliana   |
| Expression Host:      | E. coli  |
| Accession:            | O82491   |
| Molecular Weight:     | 36.9 kDa (predicted)   |
| AA Sequence:          | DFKKDVLRVDSVPTSSLEGIKEWLDTTDIKYYESKLNLNWRQILKITDDPQSFIDDGGWEFLNLDGSDSESGG SEESDKGYEPSDVEVESESEDEASESESLVESDDDEEEDSEQESEEKGGKTWDELEREATNADREHGVEDSDE EERKRRKMKAFGKSRPGTSGGGGSSSMKNMPPSKRKHR |

### QC Testing

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|----------------------|---|
| 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

Component of the FACT complex, a general chromatin factor that acts to reorganize nucleosomes. The FACT complex is involved in multiple processes that require DNA as a template such as mRNA elongation, DNA replication and DNA repair. During transcription elongation the FACT complex acts as a histone chaperone that both destabilizes and restores nucleosomal structure. It facilitates the passage of RNA polymerase II and

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transcription by promoting the dissociation of one histone H2A-H2B dimer from the nucleosome, then subsequently promotes the reestablishment of the nucleosome following the passage of RNA polymerase II (Probable).

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