

TBP1 Protein, Arabidopsis thaliana, Recombinant (His & SUMO)

General Information

Synonyms:	Transcription initiation factor TFIID TBP-1 subunit;AtTBP1;TATA-binding factor 1;TBP1;TATA-box-binding protein 1;TATA sequence-binding protein 1 (TBP-1);TATA-box factor 1
Protein Construction:	1-200 aa
Species:	Arabidopsis thaliana
Expression Host:	E. coli
Accession:	P28147
Molecular Weight:	35.3 kDa (predicted)
AA Sequence:	MTDQGLEGSNPVDLSKHPGIVPTLQNIIVSTVNLDCCKLDLKAIALQARNAEYNPKRFAAVIMRIREPKTTALIF ASGKMOVCTGAKSEDFSKMAARKYARIVQKLGFPKFKDFKIQNIVGSCDVKFPKIRLEGLAYSHAAFSSYEPELF PGLIYRMKVPKIVLLIFVSGKIVITGAKMRDETYKAFENIYPVLSEFRKIQQ

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:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:	Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.
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. <small>Actual storage temperature shall be subject to the COA.</small>
Shipping:	In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

General transcription factor that functions at the core of the DNA-binding multiprotein factor TFIID. Binding of TFIID to the TATA box is the initial transcriptional step of the pre-initiation complex (PIC), playing a role in the activation

of eukaryotic genes transcribed by RNA polymerase II.

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