

Dps Protein, Mycobacterium smegmatis, Recombinant (His & SUMO)

General Information

Synonyms:	dps;DNA protection during starvation protein
Protein Construction:	1-183 aa
Species:	Mycobacterium smegmatis
Expression Host:	E. coli
Accession:	P0C558
Molecular Weight:	36.3 kDa (predicted)
AA Sequence:	MTSFTIPGLSDKKASDVADLLQKQLSTYNDLHLLTKHVHWNVVGPNFIGVHEMIDPQVELVRGYADEVAERI ATLGKSPKGTGPAIIKDRTWDDYSVERDTVQAHLAALDLVYNGVIEDTRKSIKLEDLDLVSQDLLIAHAGELE KFQWFVRAHLESAGGQLTHEGQSTEKGAADKARRKSA

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

Protects DNA from oxidative damage by sequestering intracellular Fe(2+) ion and storing it in the form of Fe(3+) oxyhydroxide mineral. One hydrogen peroxide oxidizes two Fe(2+) ions, which prevents hydroxyl radical production by the Fenton reaction. It protects DNA from hydroxyl radical-mediated cleavage. Binds DNA with no apparent sequence specificity without self-aggregation nor promotion of DNA condensation. Is unable to protect DNA from DNase-mediated cleavage.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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