

Recombinant Mycobacterium Smegmatis DPS Protein (1-183 aa), His-SUMO-tagged

Cat. No. DPS-2126M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mycobacterium Smegmatis DPS Protein (1-183 aa) is produced by E. coli expression system. This protein is fused with a 6xHis-SUMO tag at the N-terminal. Research Area: Microbiology. Protein Description: Full Length.
Species	Mycobacterium Smegmatis
Source	E.coli
ProteinLength	1-183 aa
Description	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 (By similarity). 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.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	36.3 kDa
AA Sequence	MTSFTIPGLSDKKASDVADLLQKQLSTYNDLHLTLKHVHWNVVGPNFIGVHEMIDPQ VELVRGYADEVAERIATLGKSPKGTGPAIKDRTWDDYSVERDTVQAHLAALDLVYN GVIEDTRKSIEKLEDLDLVSQDLLIAHAGELEKFQWFVRAHLESAGGQLTHEGQSTE

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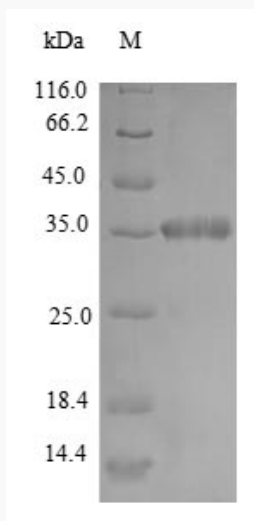
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	KGAADKARRKSA
Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA with reconstitution instruction is sent along with the products.
GENE INFORMATION	
Synonyms	dps;
UniProt ID	P0C558

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(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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