

PTX S1 Protein, Bordetella pertussis, Recombinant (His)

General Information

Synonyms:	Pertussis toxin subunit 1;PTX S1;Islet-activating protein S1 (IAP S1);ptxA;NAD-dependent ADP-ribosyltransferase
Protein Construction:	35-269 aa
Species:	Bordetella pertussis
Expression Host:	P. pastoris (Yeast)
Accession:	P04977
Molecular Weight:	28.2 kDa (predicted)
AA Sequence:	DDPPATVYRYDSRPPEDVVFQNGFTAWGNNDNVLDHLTGRSCQVGSSNSAFVSTSSRRRYTEVYLEHRMQEA VEAERAGRGTGHFIGYIYEV RADNNFYGAASSYFEYVDTYGDNAGRILAGALATYQSEYLAHRRIPPENIRRV RVYHNGITGETTTTEYSNARYVSQQTRANPNPYTSRRSVASIVGTLVRMAPVIGACMARQAESSEMAAWSE RAGEAMVLVYYESIAYSF

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

S1 is an NAD-dependent ADP-ribosyltransferase, which plays a crucial role in the pathogenesis of B.pertussis causing disruption of normal host cellular regulation. It catalyzes the ADP-ribosylation of a cysteine in the alpha subunit of host heterotrimeric G proteins. In the absence of G proteins it also catalyzes the cleavage of NAD(+) into

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ADP-ribose and nicotinamide. It irreversibly uncouples the G-alpha GTP-binding proteins from their membrane receptors.

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