

Recombinant Bordetella pertussis Pertussis toxin subunit 1(ptxA)

Catalog No: #AP71117

Package Size: #AP71117-1 20ug #AP71117-2 100ug #AP71117-3 1mg

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

Description

Product Name	Recombinant Bordetella pertussis Pertussis toxin subunit 1(ptxA)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:35-269aaSequence Info:Full Length
Other Names	Islet-activating protein S1 ;IAP S1NAD-dependent ADP-ribosyltransferase (EC:2.4.2.-)
Accession No.	P04977
Calculated MW	30.2 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	DDPPATVYRYDSRPEDVFQNGFTAWGNNDNVL DHLTGRSCQVGSSNSAFVSTSSRRYTEVYLEHRMQEA VEAERAGRGTGHFIGIYIEVRADNNFYGAASSYFEYVDITYGDNAGRILAGALATYQSEYLAHRRIPPENIRRV TVYHNGITGETTTTEYSNARYVSQQTRANPNPYTSRRSVASIVGTLVRMAPVIGACMARQAESSEAMAAWSE RAGEAMVLVYYESIAYSF
Formulation	Tris-based buffer50% glycerol
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°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

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

References

Mutations in the S1 subunit of pertussis toxin that affect secretion.Craig-Mylius K.A., Stenson T.H., Weiss A.A.Infect. Immun. 68:1276-1281(2000)Research Topic:Others

Note: This product is for in vitro research use only and is not intended for use in humans or animals.