

Recombinant Pasteurella haemolytica Leukotoxin(IktA),partial

Catalog No: #AP70978

Package Size: #AP70978-1 20ug #AP70978-2 100ug #AP70978-3 1mg

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Description

Product Name	Recombinant Pasteurella haemolytica Leukotoxin(IktA),partial
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:715-953aaSequence Info:Partial
Accession No.	P0C085
Calculated MW	53 kDa
Tag Info	N-terminal GST-tagged
Target Sequence	IGTSHNDIFKGSKFNDADFNGGDGVDITDGNNDGNDRLFGGKGDDIIDGGNGDDFIDGGKGNLHGGKGDDIFV HRQGDGNDSITESEGNDKLSFSDSNLKDITFEKVNHHLVITNTKQEKVTIQNWFREAEFAKTIQNYVATRDDEKI EEIIGQNGERITSKQVDELIEKGNGKIAQSELTKVVDNYQLLKYSRDASNSLDKLISSASAFTSSNDSRNVLASP TSMLDPSLSIIQFARAA
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

Pasteurella leukotoxins are exotoxins that attack host leukocytes and especially polymorphonuclear cells, by causing cell rupture. The leukotoxin binds to the host LFA-1 integrin and induces a signaling cascade leading to many biological effects, including tyrosine phosphorylation of the CD18 tail, elevation of the intracellular Ca^{2+} and lysis of the host cell . This leukotoxin is a major contributor to the pathogenesis of lung injury in ovine pneumonic pasteurellosis. It has also weak holytic activity.

References

Sequence diversity and molecular evolution of the leukotoxin (IktA) gene in bovine and ovine strains of Mannheimia (Pasteurella) haemolytica.Davies R.L., Whittam T.S., Selander R.K.J. Bacteriol. 183:1394-1404(2001)Research Topic:Others

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