

Recombinant Echis carinatus Disintegrin EC3B

Catalog No: #AP70954

Package Size: #AP70954-1 20ug #AP70954-2 100ug #AP70954-3 1mg

Description

Product Name	Recombinant Echis carinatus Disintegrin EC3B
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-67aaSequence Info:Full Length
Accession No.	P81631
Calculated MW	23.4 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	NSVHPCCDPVKCEPREGEHCISGPCCRNCKFLNAGTICKRAMLDGLNDYCTGISTDCPRNRYKGKED
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

Inhibits adhesion of cells expressing alpha-4,beta-1 (ITGA4,ITGB1) and alpha-4,beta-7 (ITGA4,ITGB7) integrins to the natural ligands vascular cell adhesion molecule 1 (VCAM-1) and mucosal addressin cell adhesion molecule 1 (MADCAM-1). It is also a weaker inhibitor of alpha-5,beta-1 (ITGA5,ITGB1) and alpha-2b,beta-3 (ITGA2B,ITGB3) integrins. The inhibitory activity of EC3 towards alpha-4 integrins is associated with the MLD sequence of EC3B subunit. The ability of EC3 to inhibit ITGA5,ITGB1 resides in both subunits A and B.

References

EC3, a novel heterodimeric disintegrin from Echis carinatus venom, inhibits alpha4 and alpha5 integrins in an RGD-independent manner.Marcinkiewicz C., Calvete J.J., Marcinkiewicz M.M., Raida M., Vijay-Kumar S., Huang Z., Lobb R.R., Niewiarowski S.J. Biol. Chem. 274:12468-12473(1999)Research Topic:Others

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