

Recombinant *Zoarces americanus* Ice-structuring protein lambda OP-3

Catalog No: #AP71030

Package Size: #AP71030-1 20ug #AP71030-2 100ug #AP71030-3 1mg

Description

Product Name	Recombinant <i>Zoarces americanus</i> Ice-structuring protein lambda OP-3
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:23-91aaSequence Info:Full Length
Other Names	Antifreeze protein lambda OP-3
Accession No.	P19606
Calculated MW	11.6 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	NQSVVATQLIPINTALTLVMMTTRVIYPTGIPAEDIPRLVSMQVNQAVPMGTTLMPDMVKFYCLCAPKN
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

Contributes to protect fish blood from freezing at subzero sea water temperatures. Lowers the blood freezing point. Binds to nascent ice crystals and prevents further growth (By similarity).

References

"Multiple genes provide the basis for antifreeze protein diversity and dosage in the ocean pout, *Macrozoarces americanus*."Hew C.-L., Wang N.-C., Joshi S., Fletcher G.L., Scott G.K., Hayes P.H., Buettner B., Davies P.L.J. Biol. Chem. 263:12049-12055(1988)Research Topic:Others

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