

TROSPA Protein, Ixodes scapularis, Recombinant (His)

General Information

Synonyms:	TROSPA; Tick receptor for ospA
Protein Construction:	1-161 aa
Species:	Ixodes scapularis
Expression Host:	Baculovirus Insect Cells
Accession:	Q5SDL7
Molecular Weight:	21.7 kDa (predicted)
AA Sequence:	MVAMEAMAAMEVMVAAMAATADTVASSAASATATEATVAMDTASLSLPLQLSPRSLPQSSLSATAATVATDTVVSSADTEVSDTEDSAATVSATASLSMLPQSSPRSLPQSSLSATAATVDSVTDMDTAMDTKQFISKGNEHFFAASYLCAWADQSAAGS

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:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μ g/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

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

Serves as a receptor for ospA protein of *B. burgdorferi*, the Lyme disease agent. Required for spirochetal colonization. Essential for pathogen adherence to the vector.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481