Data Sheet (Cat.No.TMPH-03372)

TargetMol

Sharpin Protein, Rat, Recombinant (His & Myc)

General Information

Synonyms: Sharpin;Shank-associated RH domain-interacting protein

Protein Construction: 1-381 aa

Species: Rat

Expression Host: E. coli

Accession: Q9EQL9

Molecular Weight: 47.7 kDa (predicted)

AA Sequence: MSPPAGGAAAAADPASPVVLLAVQAAVRLLGAGHEDEAQLRKLQLKADPERPGRFRLGLLGIEPGAVSLEW PLESICYTIRGPNQHELQPPPGGPGTFSVHFLNSEEAQQWAALVRDATAEGQNGNDSTAPVPTPAMCPTSPP CSSVTPTPKATQPEMDLPQGSGNLKKEELATHLAQAIAGGDEKAAAQVAAILAQHHVALNVQLLEAWFPRG PIRLQVTVEDATSVLSSSSSAHVSLQIHPHCSIAALQEQVFSEFGFPPAVQRWVIGRCLCMPERSLASYGVSQD GDPAFLYLLSAPREVSGHSPQHSKMDRKLGCLFPQSLELPHNLQASSSSLPSPPQPGWSCPSCTFINASNRP GCEMCSTQRPCAWDPLTATST

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/μg 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 μg/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

Component of the LUBAC complex which conjugates linear polyubiquitin chains in a head-to-tail manner to substrates and plays a key role in NF-kappa-B activation and regulation of inflammation. LUBAC conjugates linear polyubiquitin to IKBKG and RIPK1 and is involved in activation of the canonical NF-kappa-B and the JNK signaling pathways. Linear ubiquitination mediated by the LUBAC complex interferes with TNF-induced cell death and thereby prevents inflammation. LUBAC is recruited to the TNF-R1 signaling complex (TNF-RSC) following polyubiquitination of TNF-RSC components by BIRC2 and/or BIRC3 and to conjugate linear polyubiquitin to IKBKG and possibly other components contributing to the stability of the complex. Together with OTULIN, the LUBAC complex regulates the canonical Wnt signaling during angiogenesis.

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