

SIRT3 Protein, Mouse, Recombinant (His & Myc)

General Information

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| Synonyms: | Regulatory protein SIR2 homolog 3; Sir2L3; NAD-dependent protein deacetylase sirtuin-3; NAD-dependent protein deacetylase sirtuin-3; SIR2-like protein 3 (mSIR2L3); Sirt3 |
| Protein Construction: | 78-334 aa |
| Species: | Mouse |
| Expression Host: | E. coli |
| Accession: | Q8R104 |
| Molecular Weight: | 36.3 kDa (predicted) |
| AA Sequence: | MVGAGISTPSGIPDFRSPGSLYNSLQYDIPYPEAIFELGFFHNPKPFFMLAKELYPGHYRPNVTHYFLRLL HDKELLRLYTQNIIDGLERASGIPASKLVEAHGTFVTATCTVCRRSFPGEDIWADVMADRVPKPCVCTGVVVKP DIVFFGEQLPARFLLHMADFALADLLILGTSLEVEPFASLSEAVQKSVPRLLINRDLVGPVLSPPRRKDVVQLG DVVHGVERLVDLLGWTQELLDLMQRERKLDGQDR |

QC Testing

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| 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

A DRUG SCREENING EXPERT

NAD-dependent protein deacetylase. Activates or deactivates mitochondrial target proteins by deacetylating key lysine residues. Known targets include ACS1, IDH, GDH, PDHA1, SOD2, LCAD, SDHA and the ATP synthase subunit ATP5PO. Contributes to the regulation of the cellular energy metabolism. Important for regulating tissue-specific ATP levels. In response to metabolic stress, deacetylates transcription factor FOXO3 and recruits FOXO3 and mitochondrial RNA polymerase POLRMT to mtDNA to promote mtDNA transcription. Acts as a regulator of ceramide metabolism by mediating deacetylation of ceramide synthases CERS1, CERS2 and CERS6, thereby increasing their activity and promoting mitochondrial ceramide accumulation.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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