

**ChemWhat Technical Data Sheet (TDS)**

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| <b>Catalog Number:</b>          | 451-01   |
| <b>Source:</b>                  | <i>Escherichia coli</i> .  |
| <b>Molecular Weight:</b>        | Approximately 47.3 kDa, a single non-glycosylated polypeptide chain containing 414 amino acids.  |
| <b>Quantity:</b>                | 20µg /100µg /1000µg  |
| <b>AA Sequence:</b>             | IAGPEWLLDR PSVNNSQLVV SVAGTVEGTN QDISLKFFEI DLTSRPAHGG<br>KTEQGLSPKS KLFATDSGAM PHKLEKADLL KAIQEQLIAN VHSNDDYFEV<br>IDFASDATIT DRNGKVYFAD KDGSVTLPIQ PVQEFLKKGH VRVRPYKEKP<br>VQNQAQKSDV EYTVQFTPLN PDDDFRPALK DTKLLKTLAI GDTITSQELL<br>AQAQSILNKN HPGYTIYERD SSVVTHDNDI FRTILPMDQE FTYHVKNREQ<br>AYRINKKSGL NEEINNTDLI SEKYYVLKKG EKPYPDFDRS HLKLFITIKYV<br>DVNTNELLKS EQLLTASERN LDFRDLYDPR DKAKLLYNNL DAFGIMDYTL<br>TGKVEDNHDD TNRIITVYMG KRPEGENASY HLAYDKDRYT EEEREVYSYL<br>RYTGTPIPDN PNDK |
| <b>Purity:</b>                  | > 97 % by SDS-PAGE and HPLC analyses.  |
| <b>Biological Activity:</b>     | Fully biologically active when compared to standard. The specific activity determined by fibrinolytic activity in agarose plate is $8.0 \times 10^4$ IU/mg.  |
| <b>Physical Appearance:</b>     | Sterile Filtered White lyophilized (freeze-dried) powder.  |
| <b>Formulation:</b>             | Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.   |
| <b>Endotoxin:</b>               | Less than 1 EU/µg of rSK as determined by LAL method.  |
| <b>Reconstitution:</b>          | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at $\leq -20$ °C. Further dilutions should be made in appropriate buffered solutions.  |
| <b>Shipping:</b>                | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.  |
| <b>Stability &amp; Storage:</b> | Use a <b>manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"><li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li><li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li><li>● 3 months, -20 to -70 °C under sterile conditions after reconstitution.</li></ul>   |
| <b>Usage:</b>                   | <b>ChemWhat Limited in UK offers this branded product for research, development or further evaluation purposes. NOT FOR HUMAN USE.</b>   |

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### ***Streptokinase***

Streptokinase is a thrombolytic agent i.e. it dissolves vascular thrombi. This potent agent is derived from the beta haemolytic streptococci and is consequently associated with the risk of anaphylaxis. Streptokinase acts by stimulating the conversion of plasminogen to plasmin. It's a proteolytic enzyme which is able to disrupt fibrin stability and production.