

Synonym

Secretory component, SC

Source

Human Secretory Component, Twin Strep Tag (SCT-H5280) is expressed from human 293 cells (HEK293). It contains AA Lys 19 - Arg 603 (Accession # [P01833-1](#)).

Predicted N-terminus: Lys 19

Molecular Characterization

SC(Lys 19 - Arg 603) P01833-1	Twin-Strep
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This protein carries a twin strep tag at the C-terminus.

The protein has a calculated MW of 67.6 kDa. The protein migrates as 80-100 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μg by the LAL method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μm filtered solution in PBS, pH7.3. Normally trehalose is added as protectant before lyophilization.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

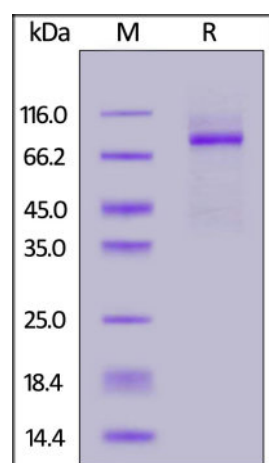
Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE

Human Secretory Component, Twin Strep Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

Background

The secretory component (SC) is a unique polypeptide chain that may be found in immunoglobulins A and M (IgA and IgM). The SC wraps around two IgA units joined by a J chain protein fragment, resulting in a configuration with each of the two antigen binding regions of the two constituent y-shaped antibodies exposed. One identified function of secretory components is to protect IgA antibodies from degradation by the gastric acids and enzymes of the digestive system. It also appears that SC may serve in the three-dimensional organization or in the transport and distribution of the resulting IgA complexes.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.