

Product Data Sheet

10% Stabilized Recombinant Human Serum Albumin (PPrHSA) Solution

Pichia pastoris–expressed recombinant human albumin

Product Overview

Product Name: 10% Stabilized Recombinant Human Serum Albumin (PPrHSA) Solution

CAT NUMBER: cAP-71

Concentration: 10% (w/v) = 100 g/L

Expression System: Pichia pastoris

Formulation: Stabilized in PBS with sodium caprylate and N-acetyl-DL-tryptophan

Appearance: Clear to pale amber solution

Sterility: 0.22 µm sterile-filtered

Storage Buffer pH: 7.4 ± 0.1

Document Reference: SOP-PPrHSA-HSA-001 (Version 1.0, Effective February 17, 2026)

Composition (Per 100 mL)

Component	Final Concentration	Amount per 100 mL
PPrHSA	10% (w/v)	10.0 g
Sodium Caprylate	16 mM	0.266 g
N-acetyl-DL-tryptophan (NAT)	16 mM	0.394 g
PBS	~1.2× final strength	—



Key Features

- Animal component-free formulation
- Yeast-expressed recombinant HSA
- Caprylate + NAT stabilized structure
- Low aggregation risk when maintained at pH 7.2–7.4
- Suitable for biologics formulation and defined media systems

Applications

- Serum replacement in cell culture systems
- Protein and biologics stabilization
- Cryopreservation media component
- Vaccine formulation excipient
- Drug delivery and nanoparticle formulation
- Organoid and 3D culture systems

Storage & Stability

Short-term storage: 2–8°C

Long-term storage: Aliquot and store at –80°C

Avoid repeated freeze-thaw cycles

Protect from contamination

Safety Information

For Research Use Only (RUO).

Use appropriate PPE during handling.

Preparation involves sodium hydroxide (corrosive reagent).