



Recombinant Protein Technical Manual  
Recombinant Human CSN3/CASK Protein (His Tag)  
RPES3704

### Product Data:

**Product SKU:** RPES3704

**Size:** 10µg

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** P07498

### Protein Information:

**Molecular Mass:** 19.1 kDa

**AP Molecular Mass:** 30-35 kDa

**Tag:** C-His

**Bio-activity:**

**Purity:** > 90% as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from a 0.2 µm filtered solution of 20mMPB,150mMNaCl,pH 7.4.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Kappa-Casein; CSN3; CASK; CSN10; CSNK

## Immunogen Information:

**Sequence:** Glu21-Ala182

## Background:

Kappa-Casein (CSN3) is a secreted protein that belongs to the Kappa-Casein family. CSN3 exists in heteromultimers that are composed of alpha-s 1casein and kappa casein linked by disulfide bonds. CSN3 is involved in a number of important physiological processes. In the gut, CSN3 protein is split into an insoluble peptide (para kappa-casein) and a soluble hydrophilic glycopeptide (caseinomacropeptide). Caseinomacropeptide is responsible for increased efficiency of digestion, prevention of neonate hypersensitivity to ingested proteins, and inhibition of gastric pathogens. Kappa-casein also stabilizes micelle formation, preventing casein precipitation in milk.