

**Product Name: Recombinant Human  $\kappa$ -Casein (C-6His)**  
**Catalog #: PHH1946**



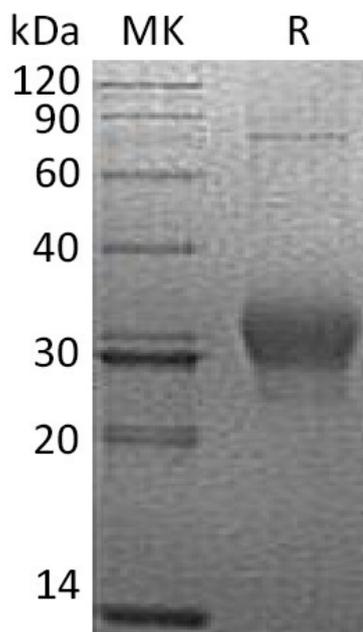
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## Summary

<b>Name</b>	$\kappa$ -Casein/Kappa-casein
<b>Purity</b>	Greater than 95% as determined by reducing SDS-PAGE
<b>Endotoxin level</b>	<1 EU/ $\mu$ g as determined by LAL test.
<b>Construction</b>	Recombinant Human $\kappa$ -Casein/CSN3 is produced by our Mammalian expression system and the target gene encoding Glu21-Ala182 is expressed with a 6His tag at the C-terminus.
<b>Accession #</b>	AAH10935.1
<b>Host</b>	Human Cells
<b>Species</b>	Human
<b>Predicted Molecular Mass</b>	19.1 KDa
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ m filtered solution of 20mM PB, 150mM NaCl, pH 7.4.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
<b>Stability&amp;Storage</b>	Lyophilized protein should be stored at $\leq -20^{\circ}\text{C}$ , stable for one year after receipt. Reconstituted protein solution can be stored at 2-8 $^{\circ}\text{C}$ for 2-7 days. Aliquots of reconstituted samples are stable at $\leq -20^{\circ}\text{C}$ for 3 months.
<b>Reconstitution</b>	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

## SDS-PAGE image

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### **Alternative Names**

Kappa-Casein; CSN3; CASK; CSN10; CSNK

### **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 (caseinomacropptide). Caseinomacropptide 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.

### **Note**

For Research Use Only , Not for Diagnostic Use.