

Kappa-Casein Protein, Human, Recombinant (His)

General Information

Synonyms:	CSNK;Kappa-Casein;k-Casein;CSN10;CASK;CSN3
Protein Construction:	Glu21-Ala182
Species:	Human
Expression Host:	HEK293 Cells
Accession:	AAH10935.1
Molecular Weight:	24-36 KDa (reducing condition)
AA Sequence:	Glu21-Ala182

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing 20 mM PB, 150 mM NaCl, pH 7.4.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein 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

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to ingested proteins, and inhibition of gastric pathogens. Kappa-casein also stabilizes micelle formation, preventing casein precipitation in milk.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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