

## Product datasheet for **TP721167**

### beta Casein (CSN2) (NM\_001891) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human casein beta (CSN2)
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	Glu26-Val226
Tag:	N-His
Predicted MW:	24.3 kDa
Concentration:	lot specific
Purity:	>95% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	Supplied as a 0.2 um filtered solution of 20mM Tris-HCl, 500mM NaCl, 10% Glycerol, 1mM DTT, 0.1mM PMSF, pH 8.0.
Endotoxin:	Endotoxin level is < 0.1 ng/μg of protein (< 1 EU/μg)
Reconstitution Method:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. Dissolve the lyophilized protein in ddH <sub>2</sub> O. It is not recommended to reconstitute a concentration less than 100 μg/ml. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Storage:	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Stability:	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
RefSeq:	<a href="#">NP_001882</a>
Locus ID:	1447
UniProt ID:	<a href="#">P05814</a>
RefSeq Size:	1078
Cytogenetics:	4q13.3
RefSeq ORF:	678
Synonyms:	CASB; PDC213


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**Summary:**

This gene is a member of the beta casein family. There are two types of casein protein, beta (encoded by this gene) and kappa, both of which are secreted in human milk. Beta casein is the principal protein in human milk and the primary source of essential amino acids for a suckling infant. Beta and kappa casein proteins acting together form spherical micelles which bind within them important dietary minerals, such as calcium and phosphorous. In addition, the C-terminal 14 aa of the protein has antimicrobial activity, especially in preterm milk, displaying antibacterial activity against *S. aureus* and *Y. enterocolitica*. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2020]

**Protein Families:**

Secreted Protein