

Name of Technology	Protein-protein aggregate formation method for production of highly functional peptides	Life Science
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Key words	peptides, CPP, casein aggregate	

What kind of technology is this?

## outline

### Solubilization of calcium phosphate useful for bone formation by highly functional CPP

We succeeded in the preparation of highly functional casein phosphopeptide (CPP) with excellent solubilizing activity of calcium phosphate by sequential pepsin and trypsin digestion of milk casein micelle formed under a certain condition. It has been clarified that CPP thus prepared has 3- to 10-fold solubilizing activity of calcium phosphate compared to CPP (CPPIII) on the market.

	Ca	Pi	Mr
CPP/try	168	122	101,000
CPP/pep/try	248	175	91,000
CPPIII	76.2	24.8	18,000
CPPCN	76.5	25.5	18,000
β-CPP	80.5	31.2	18,000

What are its applications?

CPP prepared by this technology can solubilize calcium phosphate most suitable for bone formation. This is the most suitable technology for supplementing calcium.

Related patents

Related materials

T.Ono, et al. (1998) *Biosci. Biotech. Biochem.* 62: 16-21.