

CoreBlast5

Sarcopenia is a condition in which muscles is lost as a person ages. Low-molecular whey protein can help improve muscle strength, as it is produced by hydrolysis of through a special manufacturing method. CoreBlast5 low-molecular whey protein hydrolysate is different from common WPH because it contains functional peptides of 5 amino acids.

Characteristics of Low-molecular Whey Protein

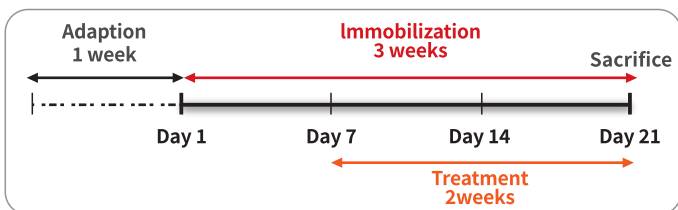
- Contains functional peptides for improving muscle strength
- Powder type applicable to various formulations
- Safety verified through toxicity assessment by GLP institutions
- Muscle strength improvement effect verified through animal experiments and human application tests

Muscle Strength Improvement Effect of Low-molecular Whey Protein

[Animal experiment method]

C57BL/6 mice (5weeks, male)

Table 1. Animal experiment model, 400/800/1200 mg/kg (2, 4, 6g when converted for the human body).



During the 3-week experiment, hind leg muscles were intentionally shrunk by immobilizing the legs, Then, the non-shrunk group and the shrunk group were divided into 400/800/1200 mg/kg groups by dose, and the test substance was ingested for 2 weeks.

[Grip measurement results]

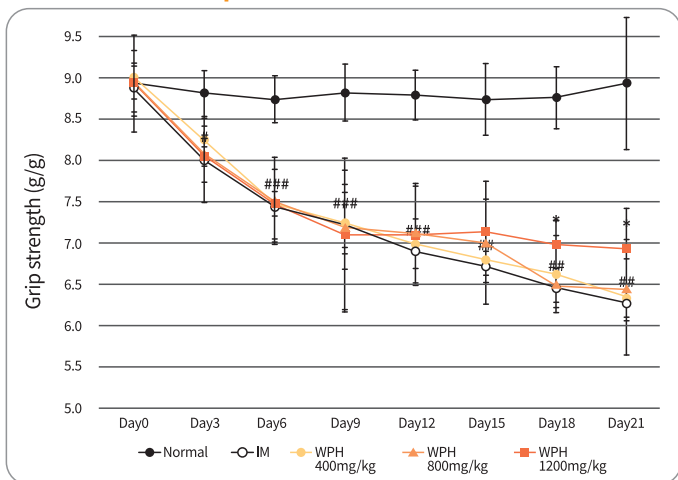


Figure 1. Animal experiment model, 400/800/1200 mg/kg (2, 4, 6g when converted for the human body)

As a result of measuring the grip strength of mice, muscle strength of the experimental groups that consumed 800 mg and 1200 mg CoreBlast5 significantly increased compared to the group that did not consume low-molecular whey protein.

[Measurement result of muscle mass]

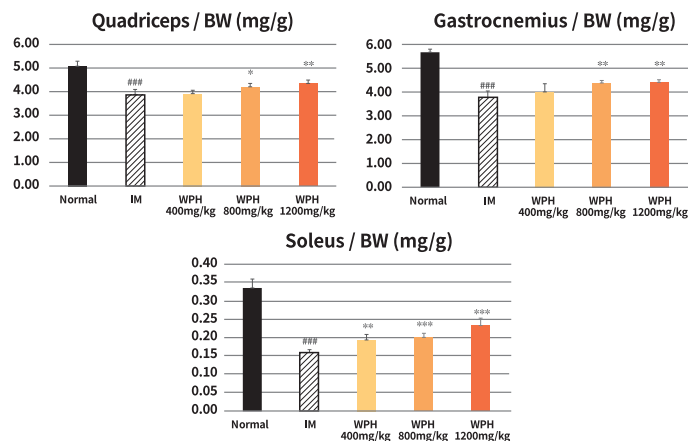


Figure 2. Muscle masses of quadriceps of thigh (left), gastrocnemius (right) and soleus (middle)

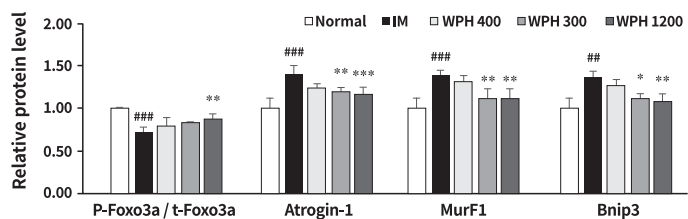


Figure 3. Measurements of muscle loss facilitating factors showed that the result was reversed due to phosphorylation in the case of Foxo3a

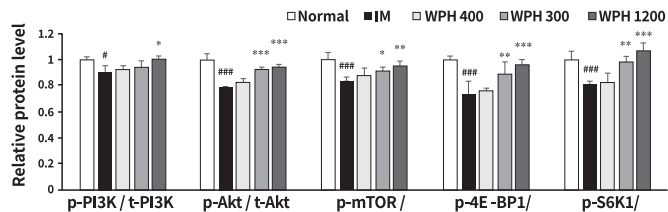


Figure 4. Measurements of muscle synthesis factors

Measurements of muscle loss facilitating factors in Figure 3 showed that most of the factors were significantly suppressed. In addition, the muscle synthesis factors in Figure 4 also increased significantly compared to the groups that did not consume CoreBlast5.

Product Information

Item	Quality specification
Appearance	Powder
Moisture	≤ 8.0%
Total plate count	≤ 3,000 cfu/g
Coliform group	Negative
Packing unit	15 kg