Bone Protein Hydrolyzing Enzyme

Protease formulation for the enzymatic hydrolysis of bone-derived and collagen-rich proteins.

SKU **ENZ329** CATEGORY **ENZYMES FOR PROTEIN HYDROLYSIS**

CATEGORY **ENZYMES FOR PROTEIN HYDROLYSIS, PROTEASE**

Industrial grade · Not restricted for transport

OPTIMUM TEMPERATURE	OPTIMUM PH	APPLICATION RATE	FORM
45–55 °C	**6.0–8.0**	**0.1%–1.0%**	**Powder**
effective range 30–60 °C	effective range pH 5.0–9.0	based on substrate weight	light brown solid powder

SPECIFICATION

PHYSICAL	
Appearance	light brown solid powder Typical
WORKING WINDOW	
Effective temperature range	30–60 °C Typical
Recommended temperature	**45–55 °C** Typical
Effective pH range	5.0–9.0 Typical
Recommended pH	**6.0–8.0** Typical
PROCESS	
Typical hydrolysis time	2–8 hours Typical

Spec = release limit, confirmed on every lot's Certificate of Analysis. **Typical** = normal product behaviour, not a release limit.

STORAGE & PACKAGING

SHELF LIFE
12 months

STORAGE
Store tightly sealed in a cool, dry, light-protected place; avoid high temperature, strong acids and strong alkalis

PACK SIZE
1 kg/bag, sealed food-grade aluminum foil bag

ORDERING
Online or by e-mail; current price on the product page

APPLICATIONS

Hydrolyse collagen-rich bone proteins into peptides and amino acids
Breaks high-molecular weight bone proteins into smaller peptides and free amino acids

Produce collagen peptides and bone protein hydrolysates
Supplies functional ingredients for nutritional formulations

Make savory hydrolysates and seasoning bases
Can enhance mouthfeel and umami perception

Process bone protein for animal nutrition and pet food
Helps improve digestibility and nutrient availability

Adjust application rate and time to set the degree of hydrolysis
Steers peptide distribution toward targeted molecular weight ranges

DOSAGE

0.1%–1.0%
based on substrate weight

Substrate	**bone raw materials**
Temperature	**50–55 °C (typical operation)**
pH	**6.0–8.0**
Hydrolysis time	**2–8 hours**

Optimize the rate as needed for substrate and target degree of hydrolysis.

Each lot is released against its specification; the lot Certificate of Analysis reports the measured values.

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Online: enzymes.bio/product/bone-protein-hydrolyzing-enzyme

Enzymes may cause sensitization or allergic reactions; avoid dust inhalation and wear gloves, eye protection and a mask. This technical data sheet gives the product specification and typical values; it is not a batch certificate. A Certificate of Analysis for the supplied lot accompanies each shipment. Safety Data Sheet on request.

SCAN TO ORDER