

Human milk lysozyme

Cat. No.:	HY-P3021
CAS No.:	12671-19-1
Sequence:	Lys-Val-Phe-Glu-Arg-Cys-Glu-Leu-Ala-Arg-Thr-Leu-Lys-Arg-Leu-Gly-Met-Asp-Gly-Tyr-Arg-Gly-Ile-Ser-Leu-Ala-Asn-Trp-Met-Cys-Leu-Ala-Lys-Trp-Glu-Ser-Gly-Tyr-Asn-Thr-Arg-Ala-Thr-Asn-Tyr-Asn-Ala-Gly-Asp-Arg-Ser-Thr-Asp-Tyr-Gly-Ile-Phe-Gln-Ile-Asn-Ser-Arg-Tyr-Trp-Cys-Asn-Asp-Gly-Lys-Thr-Pro-Gly-Ala-Val-Asn-Ala-Cys-His-Leu-Ser-Cys-Ser-Ala-Leu-Leu-Gln-Asp-Asn-Ile-Ala-Asp-Ala-Val-Ala-Cys-Ala-Lys-Arg-Val-Val-Arg-Asp-Pro-Gln-Gly-Ile-Arg-Ala-Trp-Val-Ala-Trp-Arg-Asn-Arg-Cys-Gln-Asn-Arg-Asp-Val-Arg-Gln-Tyr-Val-Gln-Gly-Cys-Gly-Val
Sequence Shortening:	KVFERCELARTLKRGLGMDGYRGISLANWMCCLAKWESGYNTRATNYNAGDRSTDYGFQINSRYWCNDGKTPGAVNACHLSCSALLQDNIADAVACAKRVRDPQGIRAWVAWRNRCQNRDVRQYVQCGGV
Target:	Bacterial; Biochemical Assay Reagents
Pathway:	Anti-infection; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

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BIOLOGICAL ACTIVITY

Description	Human milk lysozyme is the lysozyme found in human milk. Human milk lysozyme is thought to be a key defense factor in protecting the gastrointestinal tract of newborns against bacterial infection ^[1] .
In Vitro	Human milk lysozyme (0-300 µg/mL; 2 h) shows superior activity against the skin pathogens <i>Pr. acnes</i> and <i>C. minutissimum</i> . Human milk lysozyme is devoid of activity against the Gram-negative <i>E. coli</i> , <i>Salm. typhimurium</i> , and <i>Bord. bronchiseptica</i> but exerts weak activity against <i>Kleb. pneumoniae</i> and <i>Ps. aeruginosa</i> . Human milk lysozyme shows no activity against <i>Staph. epidermidis</i> and weak activity against <i>Staph. aureus</i> and <i>Str. zooepidemicus</i> ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Ibrahim HR, et al. Human lysozyme possesses novel antimicrobial peptides within its N-terminal domain that target bacterial respiration. *J Agric Food Chem.* 2011 Sep 28;59(18):10336-45.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA