Proteins

Product Data Sheet

BD-3 Protein, Mouse

Cat. No.: HY-P7138

Synonyms: rMuBD-3; DEFB-3; HBD3; Beta-defensin 103

Species: Mouse Source: E. coli

Q9WTL0 (K23-K63) Accession:

Gene ID: 27358

Molecular Weight: Approximately 10.06 kDa

PROPERTIES

AA	Seq	uen	ce
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KKINNPVSCL RKGGRCWNRC IGNTRQIGSC GVPFLKCCKR

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Biological Activity

Measured by its anti-microbial activity against E. coli. The ED₅₀ this effect is 387.3 ng/mL, corresponding to a specific activity

is 2.58×10³ U/mg.

Appearance

Lyophilized powder.

Formulation

Lyophilized from a 0.2 µm filtered solution of 40 mM PB, 300 mM NaCl, pH 7.4.

Endotoxin Level

<1 EU/µg, determined by LAL method.

Reconsititution

It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH₂O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).

Storage & Stability

Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

Shipping

Recombinant Mouse Beta Defensin-3 peptide, produced from a baculovirus expression system, shows antimicrobial activity against P. aeruginosa PAO1 (MIC of 8 μg/mL) and Escherichia coli D31 (MIC of 16 μg/mL) in a salt-dependent manner^[1]. Mouse Beta Defensin-3 peptide exhibits broad-spectrum antimicrobial activity, this peptide may serve as an innate defense against microbial invasion at specific mucosal surfaces in the mouse[2].

REFERENCES

[1]. Bals R, et al. Mouse beta-defensin 3 is an inducible antimicrobial peptide expressed in the epithelia of multiple organs. Infect Immun. 1999 Jul;67(7):3542-7.					
[2]. Burd RS, et al. Murine beta-defensin-3 is an inducible	e peptide with limited tissue expression	n and broad-spectrum antimicrobial activity. Shoc	k. 2002 Nov;18(5):461-4.		
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Tel: 609-228-6898 Addres	Fax: 609-228-5909 s: 1 Deer Park Dr, Suite Q, Monmou	E-mail: tech@MedChemExpress.com th Junction, NJ 08852, USA			

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