BD-3 Protein, Human

Cat. No.:	HY-P7137
Synonyms:	rHuBD-3; DEFB-3; HBD3; Beta-defensin 103
Species:	Human
Source:	E. coli
Accession:	P81534 (G23-K67)
Gene ID:	55894
Molecular Weight:	Approximately 5.2 kDa

PROPERTIES

AA Sequence	G I I N T L Q K Y Y C R V R G G R C A V L S C L P K E E Q I G K C S T R G R K C C R R K K
Biological Activity	The ED_{50} is <30 μg/mL as measured by anti-microbial activity against E.coli, corresponding to a specific activity of >33.3 units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against 20 mM PBS, pH 7.4, 130 mM NaCl.
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 ddH_2O. 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.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Human β-defensin-3 (HβD-3) is the most recently discovered member of the host defensepeptide family. HβD-3 has been shown to exhibit antibacterial activities towards Gram-negative and Gram-positive bacteria as well as an ability to act as a chemo-attractant. HβD-3 is of special interest for structural and functional studies and also for possible pharmaceutical applications. It is also one among the identified human defensins that has the ability to undergo oligomerization[1].

REFERENCES

[1]. Dhople V, et al. The human beta-defensin-3, an antibacterial peptide with multiple biological functions. Biochim Biophys Acta. 2006 Sep;1758(9):1499-512.

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