

BD-1 Protein, Rat

Cat. No.:	HY-P7134
Synonyms:	rRtBD-1; HBD1; DEFB1
Species:	Rat
Source:	E. coli
Accession:	O89117 (D33-S69)
Gene ID:	83687
Molecular Weight:	Approximately 7 kDa

PROPERTIES

AA Sequence	D Q Y R C L Q N G G F C L R S S C P S H T K L Q G T C K P D K P N C C R S
Biological Activity	Measured by its anti-microbial activity against E. coli. The ED ₅₀ for this effect is 62.07 ng/mL, corresponding to a specific activity is 1.61×10 ⁴ U/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against 20 mM PBS, 500 mM NaCl, pH 7.0 or 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. 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	Beta Defensin-1 displays potent microcidal properties, and also plays a part in other aspects of innate and adaptive immunity ^[1] . Rat Beta Defensin-1 reduction may be in part responsible for the high incidence of urinary tract infections in diabetes mellitus ^[2] .
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REFERENCES

[1]. Semple F, et al. β-Defensins: multifunctional modulators of infection, inflammation and more? J Innate Immun. 2012;4(4):337-48.

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

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