BACE MedChemExpress

Product Data Sheet

BD-4 Protein, Human

| HY-P7140 |
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| rHuBD-4; DEFB-4; Beta-defensin 104; DEFB4; DEFB104 |
| Human |
| E. coli |
| Q8WTQ1 (E23-P72) |
| 140596 |
| Approximately 5-11 kDa |
| |

| PROPERTIES | |
|---------------------|--|
| AA Sequence | EFELDRICGY GTARCRKKCR SQEYRIGRCP NTYACCLRKW DESLLNRTKP |
| Biological Activity | Full biological activity determined by a chemotaxis bioassay using human monocytes is in a concentration range of 0.1-100 ng/mL. |
| Appearance | Lyophilized powder. |
| Formulation | Lyophilized from a 0.2 μm filtered solution of 20 mM PBS, pH 7.4, 130 mM NaCl or 20 mM PB, 150 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 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 Human Beta Defensin-4 (hBD-4) expression is up-regulated by infection with gram-positive and gram-negative bacteria in human respiratory epithelial cells, and in response to phorbol 12-myristate 13-acetate, but not in response to other inflammatory factors that up-regulate the expression of hBD-2 or hBD-3. Synthetic hBD-4 exhibits a selective, salt-sensitive spectrum of antimicrobial activity, and it represents one of the most active antimicrobial peptides against Pseudomonas aeruginosa (minimal inhibitory concentration: 4.1 μg/mL) known to date^[1].

REFERENCES

[1]. García JR, et al. Human beta-defensin 4: a novel inducible peptide with a specific salt-sensitive spectrum of antimicrobial activity. FASEB J. 2001 Aug;15(10):1819-21.

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