β-Defensin 3 (human), (recombinant)

β-Defensin 3 (BD-3) is a member of the defensin class of antimicrobial peptides that exert host defense responses against bacteria, fungi and viruses through microbial membranes. Interferon-gamma stimulates BD-3 expression and is important during adaptive immunity. BD-3 activates monocytes and mast cells, and has antibacterial functions towards Gram-negative and Gram-positive bacteria. Additionally, BD-3 blocks human immunodeficiency virus type 1 (HIV-1) replication through the downregulation of CXCR4, the HIV-1 co-receptor.

Manuals, SDS & CofA

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Handling & Storage

Use/Stability	Reconstituted solution is stable for 3 months when stored at -20°C to -80°C and for 1 month when stored at 4°C after reconstituting as directed.
Handling	Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended solution and allow several minutes for complete reconstitution. Do not vortex. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution and store at -80°C. Avoid freeze/thaw cycles.
Short Term Storage	-20°C
Long Term Storage	-80°C
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	BD-3
Endotoxin Content	≤1 EU/μg (LAL)
Formulation	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% trifluoroacetic acid (TFA).
MW	5.2 kDa (with 45 amino acids)
Purity	≥95% (SDS-PAGE)
Reconstitution	Reconstitute with sterile 10 mM acetic acid at 0.1 mg/mL.
Sequence	GIINTLQKYYCRVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRR
Source	Produced in *E. coli*.
UniProt ID	P81534

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