

GFH192 Recombinant Human β -defensin 3

Description

β -defensin 3 is a member of the defensin class of antimicrobial peptides. β -defensins exert host defense responses against viruses, bacteria, and fungi through the binding and permeabilizing of microbial membranes. β -defensin 3 expression is stimulated by IFN- γ and is an important molecule during adaptive immunity. β -defensin 3 functions to activate monocytes and mast cells, and has antibacterial functions towards Gram-negative and Gram-positive bacteria.

Length	45 aa
Molecular Weight	5.2 kDa
Source	E. coli
Accession Number	P81534
Purity	$\geq 95\%$ determined by reducing and non-reducing SDS-PAGE

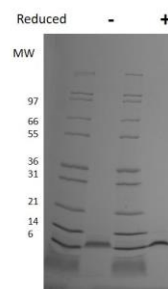
Specifications

Alternative Names	BDF-3, BD-3
Biological Activity	Activity to be determined.
Endotoxin Level	≤ 1.00 EU/ μ g as measured by kinetic LAL
Formulation	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)
AA Sequence	GIINTLQKYY CRVRGGRCV LSCLPKKEEQI GKCSTRGRKC CRRKK

Preparation and Storage

Reconstitution	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile 10 mM acetic acid at 0.1 mg/ml, which can be further diluted into other aqueous solutions.
Stability and Storage	12 months from date of receipt when stored at -20°C to -80°C as supplied. 1 month when stored at 4°C after reconstituting as directed. 3 months when stored at -20°C to -80°C after reconstituting as directed.

Data



Non-reducing (-) and reducing (+) conditions in a 4 - 20% Tris-Glycine gel stained with Coomassie Blue. 1 μ g of protein was loaded in each lane.
Human β -defensin 3 has a predicted Mw of 5.2 kDa.