

Product Data Sheet

Product Name: Cathelicidin-2 (128-153) (chicken) (trifluoroacetate salt)

Cat. No.: GC90550

Chemical Properties

Cas. No.

Formula $C_{147}H_{245}N_{51}O_{30} \cdot XCF_3COOH$ M.Wt 3206.9

Solubility Water: Soluble Storage Store at $-20^{\circ}C$

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure

$$\begin{array}{c}
 H-Arg-Phe-Gly-Arg-Phe-Leu-Arg-Lys-Ile-Arg- \\
 Arg-Phe-Arg-Pro-Lys-Val-Thr-Ile-Thr-Ile- \\
 Gln-Gly-Ser-Ala-Arg-Phe-NH_2 \\
 \bullet XCF_3COOH
 \end{array}$$

Background

Cathelicidin-2 (CATH-2) (128-153) is a synthetic antimicrobial peptide that corresponds to amino acids 128-153 of chicken CATH-2.¹ It is active against *E. coli*, *S. aureus*, *S. enteritidis*, and *B. globigii* in a concentration-dependent manner. CATH-2 (128-153) ($40 \mu M$) induces hemolysis of isolated chicken erythrocytes but is not cytotoxic to isolated human peripheral blood mononuclear cells (PBMCs). It induces production of chemokine (C-C-motif) ligand 2 (CCL2) and inhibits LPS-induced production of $TNF-\alpha$, IL-6, IL-8, and IL-10 in isolated human PBMCs.

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

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