



Product Name : Indolicidin

Synonyms : —

Cat No. : M22323

CAS Number : 140896-21-5

Molecular Formula : C100H132N26O13

Formula Weight : 1906.28

Chemical Name : ----

Indolicidin is comprised of 13 amino acids, 5 of which are tryptophan residues, and the carboxylterminal arginine is carboxamidated. Indolicidin has the highest tryptophan content of any known protein. Indolicidin is comprised of 13 amino acids, 5 of which are tryptophan residues, and the carboxylterminal arginine is carboxamidated. Indolicidin has the highest tryptophan content of any known protein. The multiple tryptophan residues may play an important role in the function of this unique antibiotic peptide. Indolicidin is a tridecapeptide amide which possesses in vitro bactericidal activities comparable with the most active of the defensin or bactenecin peptides. Indolicidin binds purified surface lipopolysaccharide with high

Descriptionwith the most active of the defension of bacteries in peptides, indoiction binds purified surface inpopolysacchar affinity and permeabilized the outer membrane of Escherichia coli to the small hydrophobic molecule 1-N-

phenylnapthylamine (Mr 200), results consistent with indolicidin crossing the outer membrane via the self-promoted uptake pathway. The methyl esterification of indolicidin's carboxyl terminus increases its activity for Gram-negative and Gram-positive bacteria. In Gram-negative bacteria this is associated with an increased binding to lipopolysaccharide and increased permeabilization of the outer membrane. The cytoplasmic membrane is the site of action of indolicidin as assayed in Escherichia coli by the unmasking of cytoplasmic beta-galactosidase due to membrane permeabilization.

Pathway : GPCR/G Protein

Target : Antibacterial

Receptor : Bacterial

Solubility : —

SMILES : —

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Selsted ME, et al. Indolicidin, a novel bactericidal tridecapeptide amide from neutrophils. J Biol Chem. 1992 Mar 5;267(7):4292-5.