

Crabrolin
Synthetic Peptide
Catalog # SP2221a**Specification**

Crabrolin - Product InformationPrimary Accession
Sequence[P01518](#)
NH2-FLPLILRKIVTAL-CONH2**Crabrolin - Additional Information****Other Names**
Crabrolin, CRBL**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Crabrolin - Protein Information**Name** CRBL**Function**

Antimicrobial and mast cell degranulating peptide (PubMed:6206053, PubMed:9273892, PubMed:31487493). Shows low antimicrobial activity towards some Gram-negative bacteria (E.coli MIC=300 ug/ml, S.typhimurium MIC=300 ug/ml) and all Gram-positive bacteria tested (B.subtilis MIC=300 ug/ml, S.aureus MIC=300 ug/ml, E.faecalis MIC=150 ug/ml, and E.faecium MIC=75 ug/ml) (PubMed:9273892, PubMed:31487493). May act by permeabilizing membranes, since it permeabilizes liposomes composed by phosphatidylethanolamine(PE)/phosphatidylglycerol(PG) and cardiolipin(CL)/phosphatidylglycerol(PG), which mimic the membranes of Gram-negative and Gram-positive bacteria, respectively (PubMed:31487493). Causes hemolysis on rat and guinea pig erythrocytes (PubMed:6206053, PubMed:9273892). Its mast cell degranulation activity may be related to the activation of G-protein coupled receptors in mast cells as well as interaction with other proteins located in cell endosomal membranes in the mast cells

(By similarity).

Cellular Location

Secreted. Target cell membrane. Note=Assumes an amphipathic alpha-helical conformation in a membrane-like environment

Tissue Location

Expressed by the venom gland.

Crabrolin - Images