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## DATASHEET

Magainin 2

### Product overview

<b>Name</b>	Magainin 2
<b>Cat No</b>	HB7412
<b>Biological description</b>	Antimicrobial peptide that exerts its antimicrobial activity via microbial membrane disruption. Also shows cytotoxic, anti-proliferative, anti-viral and anti-tumor activities.
<b>Alternative names</b>	Mag2
<b>Biological action</b>	Peptide
<b>Purity</b>	>95%
<b>Description</b>	Antimicrobial peptide

### Solubility & Handling

<b>Storage instructions</b>	-20°C
<b>Solubility overview</b>	Soluble in acidic buffers
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

### Chemical Data

<b>Molecular Weight</b>	2466.92
<b>Molecular Formula</b>	C <sub>114</sub> H <sub>180</sub> N <sub>30</sub> O <sub>29</sub> S
<b>Sequence (one letter)</b>	GIGKFLHSAKKFGKAFVGEIMNS
<b>Sequence (three letter)</b>	H-Gly-Ile-Gly-Lys-Phe-Leu-His-Ser-Ala-Lys-Lys-Phe-Gly-Lys-Ala-Phe-Val-Gly-Glu-Ile-Met-Asn-Ser-OH
<b>CAS Number</b>	108433-95-0
<b>PubChem identifier</b>	16130189
<b>InChiKey</b>	MGIUUAHJVPPFEV-ABXDCCGRSA-N

### References

#### The effects of magainin 2-derived and rationally designed antimicrobial peptides on *Mycoplasma pneumoniae*

Hayashi K *et al* (2022) PLoS One 17(1)

**PubMedID** [35073323](#)

#### Highly synergistic antimicrobial activity of magainin 2 and PGLa peptides is rooted in the formation of supramolecular complexes with lipids

Aisenbrey C *et al* (2020) Sci Rep 10(1)

**PubMedID** [32669585](#)

#### Development of Antimicrobial Stapled Peptides Based on Magainin 2 Sequence

Hirano M *et al* (2021) Molecules 26(2)

**PubMedID** [33466998](#)

