



## Product Data Sheet

**Product Name:** Magainin 2  
**Catalog Number:** AS-20639 (0.5 mg)                      Lot Number: See label on vial  
AS-20640 (1 mg)  
**Sequence:** 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 (3-letter code)  
GIGKFLHSAKKFGKAFVGEIMNS (1-letter code)  
**Molecular Weight:** 2467.9  
**% Peak Area by HPLC:** ≥ 95  
**Appearance:** Lyophilized white powder  
**Peptide Reconstitution:** Using H<sub>2</sub>O, reconstitute by adding 50-70 µl to 0.5 mg Magainin 2 peptide.

**Storage:** Magainin 2 peptide is shipped at ambient temperature. Upon receipt, store lyophilized peptide at –20°C or lower. Reconstituted peptide can be aliquoted and stored at –20°C or lower.

**Description:** Magainin 2 assumes an amphiphilic helix when bound to acidic phospholipids, forming a pore composed of a dynamic, peptide-lipid supramolecular complex. Ref: Zasloff, M. *Proc. Natl. Acad. Sci. USA*. **84**, 5449 (1987); Cruciani, RA. et al. *EJPMOL* **8**, 187 (1992); Corzo, G. et al. *Biochem. J.* **359**, 35 (2001); Matsuzaki, K. et al. *Biochem.* **36**, 2104 (1997).

**Additional Information:** Listed below are relevant information that may provide a guideline on how to use this product. End users will have to adapt to their own specific applications.

The LL-37 and magainin 2 peptides were obtained from Anaspec. Using the *Escherichia coli* K12 JM109 strain (New England Biolabs), we measured MIC values of 3 and 12 µM for LL-37 and magainin 2, respectively. These values were consistent with those measured previously for these peptides with other *E. coli* strains. For the cell viability/permeabilization assays, cultures of *E. coli* JM109 were grown exponentially in Luria–Bertani (LB) medium (OD<sub>600nm</sub> = 0.6) and then pelleted by centrifugation at 1600g for 10 min at 4 °C-[Bourbon, C. et al. Anal. Biochem. 381, 279 \(2008\)](#).

### Published Citations:

Maher, S. et al. *Biochem. Pharmacol.* **71**, 1289 (2006).  
Bourbon, C. et al. *Anal. Biochem.* **381**, 279 (2008).  
Palmero, EF. et al. *Biomacromolecules* **10**, 1416 (2009).

### Related Products:

Name	Cat #	Size
Magainin 1	AS-20791	0.5 mg
(GIGKFLHSAGKFGKAFVGEIMKS)	AS-20792	1 mg

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