

## Maculatin 1.1 TFA

<b>Cat. No.:</b>	HY-P5932
<b>Molecular Formula:</b>	$C_{103}H_{161}N_{27}O_{23} \cdot xC_2HF_3O_2$
<b>Sequence:</b>	Gly-Leu-Phe-Gly-Val-Leu-Ala-Lys-Val-Ala-Ala-His-Val-Val-Pro-Ala-Ile-Ala-Glu-His-Phe-NH <sub>2</sub> GLFGVLAKVAAHVVPAIAEHF-NH <sub>2</sub> (TFA)
<b>Sequence Shortening:</b>	GLFGVLAKVAAHVVPAIAEHF-NH <sub>2</sub>
<b>Target:</b>	Bacterial
<b>Pathway:</b>	Anti-infection
<b>Storage:</b>	Sealed storage, away from moisture and light Powder    -80°C    2 years -20°C    1 year * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)

### BIOLOGICAL ACTIVITY

#### Description

Maculatin 1.1 TFA is an antimicrobial peptide with an MIC against *Staphylococcus aureus* of 7 μM. Maculatin 1.1 TFA can perforate the bacterial membrane of *Staphylococcus aureus*, causing bacterial death<sup>[1]</sup>.

### REFERENCES

[1]. Sani MA, et al. Maculatin 1.1 disrupts *Staphylococcus aureus* lipid membranes via a pore mechanism. *Antimicrob Agents Chemother.* 2013 Aug;57(8):3593-600.

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

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