

## HYNIC-UBI29-41

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| <b>Cat. No.:</b>            | HY-P10913   |
| <b>CAS No.:</b>             | 1186217-15-1  |
| <b>Molecular Formula:</b>   | C <sub>74</sub> H <sub>126</sub> N <sub>34</sub> O <sub>19</sub> S                        |
| <b>Molecular Weight:</b>    | 1828.07   |
| <b>Sequence:</b>            | {HYNIC-Thr}-Gly-Arg-Ala-Lys-Arg-Arg-Met-Gln-Tyr-Asn-Arg-Arg                               |
| <b>Sequence Shortening:</b> | {HYNIC-Thr}-GRAKRRMQYNRR  |
| <b>Target:</b>              | Bacterial   |
| <b>Pathway:</b>             | Anti-infection  |
| <b>Storage:</b>             | Please store the product under the recommended conditions in the Certificate of Analysis. |

### BIOLOGICAL ACTIVITY

#### Description

HYNIC-UBI29-41 is composed of a bifunctional chelator HYNIC and an antimicrobial peptide UBI 29-41. HYNIC-UBI29-41 retains the antibacterial properties of UBI 29-41, and exhibits good affinity to Gram-positive and Gram-negative bacteria. HYNIC-UBI29-41 can be used as an imaging agent for bacterial infection detection in mouse models, when labeled with the radioactive element technetium (99mTc)<sup>[1]</sup>.

### REFERENCES

[1]. Welling MM, et al., Infection detection in mice using 99mTc-labeled HYNIC and N2S2 chelate conjugated to the antimicrobial peptide UBI 29-41. Nucl Med Biol. 2004 May;31(4):503-9.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite F, Monmouth Junction, NJ 08852, USA