

## Gurmarin Peptide

Gurmarin

CATALOG #  
**AAA60651**

### PRODUCT SYNONYMS

Gurmarin; Pyr-Gln-Cys-Val-Lys-Lys-Asp-Glu-Leu-Cys-Ile-Pro-Tyr-Tyr-Leu-Asp-Cys-Cys-Glu-Pro-Leu-Glu-Cys-Lys-Lys-Val-Asn-Trp-Trp-Asp-His-Lys-; Gurmarin peptide

### PRODUCT SPECIFICATIONS

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| Sequence Positions        | Pyr-Gln-Cys-Val-Lys-Lys-Asp-Glu-Leu-Cys-Ile-Pro-Tyr-Tyr-Leu-Asp-Cys-Cys-Glu-Pro-Leu-Glu-Cys-Lys-Lys-Val-Asn-Trp-Trp-Asp-His-Lys-Cys-Ile-Gly-CySI-CYSta, CySto-CyS23, and CySt7-CySI-CYSta, CySto-CyS23, and CySt7-CYS-Ile-Gly-OH                                                                                                                                                                                                                                                                                                                                                                 |
| CAS No.                   | [138464-10-5]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Chemical Formula          | C <sub>187</sub> H <sub>276</sub> N <sub>46</sub> O <sub>53</sub> S <sub>6</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Test/Result/Specification | <p>Test: Color<br/>Result: white<br/>Specification: reported</p> <p>Test: Form<br/>Result: powder<br/>Specification: reported</p> <p>Test: Purity (%)<br/>Result: &gt; 99 %<br/>Specification: min. 95 %</p> <p>Test: Purity Method<br/>Result: UPLC<br/>Specification: reported</p> <p>Test: Identity<br/>Result: corresponds<br/>Specification: corresponds</p> <p>Test: Identity Method<br/>Result: MS<br/>Specification: reported</p> <p>Test: Net Peptide Content<br/>Result: 72.0 %<br/>Specification: reported</p> <p>Test: Salt Form<br/>Result: acetate<br/>Specification: reported</p> |
| Preparation and Storage   | Store at < -15°C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

ADDITIONAL INFORMATION

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| Related Product Information for Gurmarin peptide | Gurmarin is a polycyclic diterpene that can be found in the bark of the G. lucidum tree. It has been shown to bind to glutamate receptors, which are ion channels that allow ions such as calcium and sodium to pass through cell membranes. Gurmarin has been shown to activate these receptors in vitro, and knockout or over-expression of these receptors in cells can lead to changes in receptor activity. Gurmarin has also been shown to have specific binding affinity for a certain type of receptor cell, which are cells with cation channels that may be involved in taste perception. The receptor binding site on the gurmarin molecule is thought to correspond with the sweet taste sensation. |
| Product Categories/Family for Gurmarin peptide   | Biologically Active Peptides; Diabetes Related Peptides                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| References                                       | J.I. Fletcher, et al., Eur. J. Biochem., 264, 525 (1999) . M. Sigoillot, et al., Appl. Microbiol. Biotechnol., 96, 619 (2012) . Y. Ninomiya, et al., Am J Physiol., 274, R1324 (1998) . A. Shiyovich, et al., Am. J. Med. Sci., 340; 514 (2010) .                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

NCBI AND UNIPROT INFORMATION

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| Molecular Weight | 4,208.95 g/mol |
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**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/peptide/gurmarin/60651>