

## GAD65(247-266) epitope TFA

|                             |   |
|-----------------------------|---|
| <b>Cat. No.:</b>            | HY-P5305A   |
| <b>Molecular Formula:</b>   | C <sub>111</sub> H <sub>174</sub> F <sub>3</sub> N <sub>27</sub> O <sub>29</sub> S <sub>4</sub> |
| <b>Molecular Weight:</b>    | 2535.99   |
| <b>Sequence:</b>            | Asn-Met-Tyr-Ala-Met-Met-Ile-Ala-Arg-Phe-Lys-Met-Phe-Pro-Glu-Val-Lys-Glu-Lys-Gly                 |
| <b>Sequence Shortening:</b> | NMYAMMIARFKMFPEVKEKG  |
| <b>Target:</b>              | GABA Receptor   |
| <b>Pathway:</b>             | Membrane Transporter/Ion Channel; Neuronal Signaling  |
| <b>Storage:</b>             | Please store the product under the recommended conditions in the Certificate of Analysis.       |

### BIOLOGICAL ACTIVITY

#### Description

GAD65(247-266) epitope TFA is the T cell epitopes of islet antigens binding to I-A<sup>g7</sup> (type I diabetes-associated molecule) competitively with poor affinity. GAD65 refers to Glutamic Acid Decarboxylase 65 involved in the conversion of glutamate to gamma-aminobutyric acid (GABA)<sup>[1]</sup>.

### REFERENCES

[1]. Hausmann DH, et al. pH-dependent peptide binding properties of the type I diabetes-associated I-A<sup>g7</sup> molecule: rapid release of CLIP at an endosomal pH. J Exp Med. 1999 Jun 7;189(11):1723-34.

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

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