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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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CaMKI(299-320)

| | |
|----------------------|---|
| Cat. No.: | HY-P10316 |
| CAS No.: | 205598-38-5 |
| Molecular Formula: | C ₁₁₆ H ₁₉₂ N ₃₈ O ₂₈ S |
| Molecular Weight: | 2599.07 |
| Sequence: | Ala-Lys-Ser-Lys-Trp-Lys-Gln-Ala-Phe-Asn-Ala-Thr-Ala-Val-Val-Arg-His-Met-Arg-Lys-Leu-Gln |
| Sequence Shortening: | AKSKWKQAFNATAVVRHMRKLQ |
| Target: | CaMK |
| Pathway: | Neuronal Signaling |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |

BIOLOGICAL ACTIVITY

Description

CaMKI (299-320) refers to a peptide consisting of residues 299-320 of Calcium/calmodulin-dependent protein kinase I (CaMKI). CaMKI (299-320), as a protein kinase, has a high affinity interaction with Ca²⁺-CAM ($K_d \leq 1 \text{ nM} \leq 1 \text{ nM}$), which can phosphorylate specific substrate proteins, thereby regulating their activity. CaMKI (299-320) contains the CAM-binding domain and the self-inhibition domain, and CaMKI (299-320) can be used to study cell physiological processes, including cell proliferation, differentiation, and apoptosis^[1].

REFERENCES

[1]. Yuan T, et al. Spectroscopic characterization of the calmodulin-binding and autoinhibitory domains of calcium/calmodulin-dependent protein kinase I[J]. Archives of biochemistry and biophysics, 2004, 421(2): 192-206.

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

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