



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## Klotho-derived peptide 1

<b>Cat. No.:</b>	HY-P10414
<b>Molecular Formula:</b>	C <sub>149</sub> H <sub>203</sub> N <sub>39</sub> O <sub>43</sub>
<b>Molecular Weight:</b>	3228.44
<b>Sequence:</b>	Phe-Gln-Gly-Thr-Phe-Pro-Asp-Gly-Phe-Leu-Trp-Ala-Val-Gly-Ser-Ala-Ala-Tyr-Gln-Thr-Glu-Gly-Gly-Trp-Gln-Gln-His-Gly-Lys-Gly
<b>Sequence Shortening:</b>	FQGTFPDGFLLWAVGSAAYQTEGGWQHGKG
<b>Target:</b>	TGF-beta/Smad; p38 MAPK
<b>Pathway:</b>	Stem Cell/Wnt; TGF-beta/Smad; MAPK/ERK Pathway
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

#### Description

Klotho-derived peptide 1 (KP1 human) blocks TGF- $\beta$ /TGF- $\beta$  receptor 2 interaction, inhibits TGF- $\beta$ -induced activation of Smad2/3 and mitogen-activated protein kinase (MAPK), and exhibits anti-fibrotic and kidney protective effects in mouse model<sup>[1]</sup>.

### REFERENCES

[1]. Yuan Q, et al., A Klotho-derived peptide protects against kidney fibrosis by targeting TGF- $\beta$  signaling. Nat Commun. 2022 Jan 21;13(1):438.

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

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