



# 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

### SZABO-SCANDIC HandelsgmbH

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## TAX2 peptide

<b>Cat. No.:</b>	HY-P10388
<b>Molecular Formula:</b>	C <sub>51</sub> H <sub>86</sub> N <sub>14</sub> O <sub>19</sub> S <sub>2</sub>
<b>Molecular Weight:</b>	1263.44
<b>Sequence:</b>	Cys-Glu-Val-Ser-Gln-Leu-Leu-Lys-Gly-Asp-Ala-Cys (Disulfide bridge: Cys1-Cys12)
<b>Sequence Shortening:</b>	CEVSQLKGDAC (Disulfide bridge: Cys1-Cys12)
<b>Target:</b>	TGF-β Receptor; CD47
<b>Pathway:</b>	TGF-beta/Smad; Immunology/Inflammation
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

#### Description

TAX2 peptide is a dodecapeptide based on molecular docking and simulation design, derived from the cell surface receptor CD47 sequence. TAX2 peptide acts as a selective antagonist of TSP-1 (thromboxin-1) interacting with CD47. TAX2 peptide can promote the binding of TSP-1 to CD36, which leads to the destruction of VEGFR2 (vascular endothelial growth factor receptor 2) activation, thereby blocking downstream NO (nitric oxide) signaling, demonstrating anti-angiogenic properties. TAX2 peptide can be used to study angiogenesis and tumor cell interactions in the tumor microenvironment<sup>[1]</sup>.

### REFERENCES

[1]. Jeanne A, et al. Identification of TAX2 peptide as a new unpredicted anti-cancer agent[J]. Oncotarget, 2015, 6(20): 17981.

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

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