SZABO SCANDIC

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# Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

## Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

## Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand


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# BMSpep-57 hydrochloride

**Cat. No.:** HY-P3143A

**Molecular Formula:** $C_{89}H_{127}ClN_{24}O_{19}S$

**Molecular Weight:** 1904.63

**Sequence:** {mercaptoacetic acid}-Phe-Ala-Asn-Pro-His-Leu-Ser-Trp-Ser-Trp-{norleucine}-{norleucine}-Arg-Cys-Gly (Sulfide bridge:mercaptoacetic acid 1-Cys15)

**Sequence Shortening:** {mercaptoacetic acid}-FANPHLSWSW-{norleucine}-{norleucine}-RCG (Sulfide bridge: mercaptoacetic acid 1-Cys15)

**Target:** PD-1/PD-L1

**Pathway:** Immunology/Inflammation

**Storage:** Sealed storage, away from moisture

| | | |
|---|---|---|
| Powder | -80°C | 2 years |
| | -20°C | 1 year |

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

## BIOLOGICAL ACTIVITY

| | |
|---|---|
| **Description** | BMSpep-57 hydrochloride is a potent and competitive macrocyclic peptide inhibitor of PD-1/PD-L1 interaction with an $IC_{50}$ of 7.68 nM. BMSpep-57 hydrochloride binds to PD-L1 with $K_d$s of 19 nM and 19.88 nM in MST and SPR assays, respectively. BMSpep-57 hydrochloride facilitates T cell function by in creasing IL-2 production in PBMCs[1]. |
| **$IC_{50}$ & Target** | IC50: 7.68 nM (PD-1/PD-L1 interaction)[1] |
| **In Vitro** | In a ELISA competition assay, BMSpep-57 inhibits PD-1/PD-L1 binding up to 98.1% 300 nM. And it shows a concentration dependent inhibition of PD-1/PD-L1 binding with an $IC_{50}$ of 7.68 nM[1].<br>BMSpep-57 induced high levels of IL-2 at 1 μM and 500 nM concentrations in SEB-stimulated peripheral blood mononuclear cells[1].<br>BMSpep-57 (0.2-10 μM; 24 hours) does not show any effect on the Jurkat, CHO and HepG2 cells' viability at the various concentrations tested[1].<br>MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

## REFERENCES

[1]. Aravindhan Ganesan, et al. Comprehensive in vitro characterization of PD-L1 small molecule inhibitors.Sci Rep . 2019 Aug 27;9(1):12392.



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