## Product Data Sheet

## BMSpep-57 hydrochloride

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HY-P3143A
C <sub>89</sub> H <sub>127</sub> ClN <sub>24</sub> O <sub>19</sub> S
1904.63
{mercaptoacetic acid}-Phe-Ala-Asn-Pro-His-Leu-Ser-Trp-Ser-Trp-{norleucine}-{norleu cine}-Arg-Cys-Gly (Sulfide bridge:mercaptoacetic acid 1-Cys15)
{mercaptoacetic acid}-FANPHLSWSW-{norleucine}-{norleucine}-RCG (Sulfide bridge: mercaptoacetic acid 1-Cys15)
PD-1/PD-L1
Immunology/Inflammation
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 <sub>50</sub> of 7.68 nM. BMSpep-57 hydrochloride binds to PD-L1 with K <sub>d</sub> 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 <sup>[1]</sup> .
IC <sub>50</sub> & Target	IC50: 7.68 nM (PD-1/PD-L1 interaction) <sup>[1]</sup>
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 <sub>50</sub> of 7.68 nM <sup>[1]</sup> . BMSpep-57 induced high levels of IL-2 at 1 μM and 500 nM concentrations in SEB-stimulated peripheral blood mononuclear cells <sup>[1]</sup> . 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 <sup>[1]</sup> . 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.

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

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