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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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BMSpep-57

Cat. No.:	HY-P3143
CAS No.:	1629655-80-6
Molecular Formula:	C ₈₉ H ₁₂₆ N ₂₄ O ₁₉ S
Molecular Weight:	1868.17
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 is a potent and competitive macrocyclic peptide inhibitor of PD-1/PD-L1 interaction with an IC ₅₀ of 7.68 nM. BMSpep-57 binds to PD-L1 with K _d s of 19 nM and 19.88 nM in MST and SPR assays, respectively. BMSpep-57 facilitates T cell function by increasing IL-2 production in PBMCs ^[1] .
IC₅₀ & Target	IC ₅₀ : 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] . BMSpep-57 induced high levels of IL-2 at 1 μM and 500 nM concentrations in SEB-stimulated peripheral blood mononuclear cells ^[1] . 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] . 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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