

## BMSpep-57 hydrochloride

## Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Keep away from moisture  
Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
Actual storage temperature shall be subject to the COA.

## Biological Description

Description	BMSpep-57 hydrochloride, a potent macrocyclic peptide, competitively inhibits PD-1/PD-L1 interaction, exhibiting an IC50 value of 7.68 nM. It binds to PD-L1 with dissociation constants (Kds) of 19 nM and 19.88 nM as determined by MST and SPR assays, respectively. This compound enhances T cell functionality by promoting IL-2 production in PBMCs[1].
Targets(IC50)	PD-1/PD-L1
In vitro	In an ELISA competition assay, BMSpep-57 demonstrated up to 98.1% inhibition of PD-1/PD-L1 binding at a concentration of 300 nM, exhibiting concentration-dependent effects with an IC50 value of 7.68 nM[1]. Furthermore, BMSpep-57 significantly increased IL-2 production at concentrations of 1 µM and 500 nM in SEB-stimulated peripheral blood mononuclear cells[1]. Additionally, exposure to BMSpep-57 (0.2-10 µM for 24 hours) had no impact on the viability of Jurkat, CHO, and HepG2 cells across the tested concentrations[1].

## Reference

Aravindhnan 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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