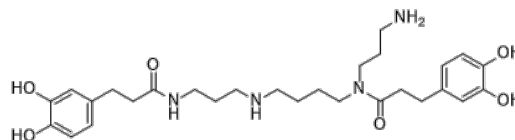


Product Name : Kukoamine B
Cat. No. : PC-27897
CAS No. : 164991-67-7
Molecular Formula : C₂₈H₄₂N₄O₆
Molecular Weight : 530.67
Target : PD-1/PD-L1
Solubility : 10 mM in DMSO



Biological Activity

Kukoamine B is a natural alkaloid compound and potent dual inhibitor for both lipopolysaccharides (LPS) and oligodeoxynucleotides containing CpG motifs (CpG DNA), also is an inhibitor of membrane PD-1/PD-L1 interaction, thereby restoring T-cell function.

Kukoamine B neutralizes LPS and CpG DNA and prevents them from interacting with mouse macrophages.

Kukoamine B selectively inhibits LPS- and CpG DNA-induced signal transduction and expression of pro-inflammatory mediators without interfering with signal pathways or cell viability in macrophages.

Kukoamine B protects mice challenged with heat-killed Escherichia coli, and reduces the circulatory levels of LPS and TNF-α.

Kukoamine B promotes TLR4-independent lipopolysaccharide uptake in murine hepatocytes.

References

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Yang D, et al. Oncotarget. 2016 Sep 6;7(36):57498-57513.

Liu X, et al. Br J Pharmacol. 2011 Mar;162(6):1274-90.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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