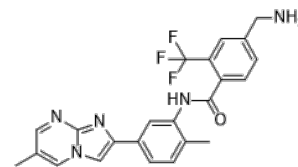

Product Name	: PVP-037.2
Cat. No.	: PC-22584
CAS No.	: 3049666-32-9
Molecular Formula	: C ₂₃ H ₂₀ F ₃ N ₅ O
Molecular Weight	: 439.44
Target	: Toll-like Receptor (TLR)
Solubility	: 10 mM in DMSO



CAS: 3049666-32-9

Biological Activity

PVP-037.2 is a small-molecule that induces cytokine production and **TLR7/8** agonist, demonstrates TLR7-dependent enhancement of TH1-polarizing adjuvanticity.

ODN 20958 (TLR7 specific antagonist) completely blocks PVP-037.2-induced TNF production in human PBMCs.

PVP-037.2 acts in synergy with a squalene-based oil in water formulation to enhance cytokine induction in vitro and vaccine immunogenicity in vivo.

The type 1 immunomodulatory profile of PVP-037.2 is mediated by TLR7.

Formulation of PVP-037.2 with squalene enhanced its adjuvanticity.

PVP-037.2 demonstrates a TLR7/8-dependent immunomodulatory profile.

References

Soni D, et al. *Sci Adv.* 2024 Jul 5;10(27):eadg3747.

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

E-mail: tech@probechem.com
