

## Product Datasheet

### TLR7/8 agonist 13 (orb3136909)

<b>Catalog Number</b>	orb3136909
<b>Category</b>	Small Molecules
<b>Description</b>	<p>TLR7/8 agonist 13 is an orally active dual agonist of TLR7 (with a lowest effective concentration (LEC) [hTLR7] of 1.6 <math>\mu</math>M) and TLR8 (LEC [hTLR8] of 1.6 <math>\mu</math>M). It acts on human peripheral blood mononuclear cells (hPBMC) with agonistic activity (LEC [hPBMC] = 0.5 <math>\mu</math>M). In mice and cynomolgus monkeys, TLR7/8 agonist 13 induces endogenous IFN<math>\alpha</math>, activates myeloid dendritic cells and monocytes, promoting their differentiation towards a TH1 phenotype. In chronic AAV-HBV mouse models, it reduces viral load and HBV surface antigen levels. TLR7/8 agonist 13 has the potential to indirectly induce IFN<math>\gamma</math>, facilitating the response of HBV antigen-specific CD8 T cells. This compound is useful for hepatitis B virus research.</p>
<b>Target</b>	TLR,Interleukin,HBV,IFNAR
<b>MW</b>	254.33
<b>CAS Number</b>	1402802-45-2
<b>Formula</b>	C <sub>12</sub> H <sub>22</sub> N <sub>4</sub> O <sub>2</sub>
<b>SMILES</b>	<chem>N([C@@H](CCCC)CCO)C=1C(OC)=CN=C(N)N1</chem>
<b>Storage</b>	-20°C
<b>Note</b>	For research use only
<b>Expiration Date</b>	12 months from date of receipt.

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