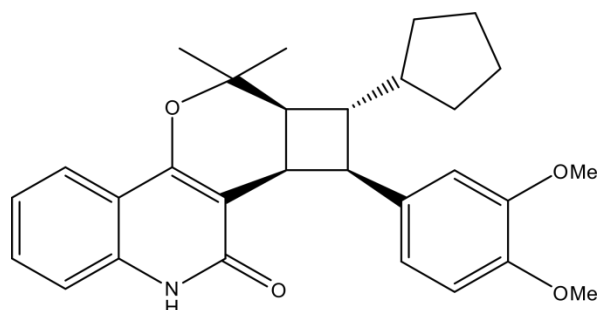


## Euodenine A Derivative

Cat# NB-20-0002



The structure of Euodenine A

### Description

Euodenine A is a small molecule natural product agonist of the human TLR4 receptor (Ec50=0.39uM). It is a human-selective agonist that is CD14-independent, and it requires both TLR4 and MD-2 for full efficacy. Testing for immunomodulation in PBMC cells indicated that compounds like Euodenine A could modulate the Th2 immune response without causing lung damage.

### Product Informations

<b>Systematic Name</b>	(1R,2R,2aR,10aS)-1-cyclopentyl-2-(3,4-dimethoxyphenyl)-10,10-dimethyl-2,2a,10,10a-tetrahydro-1H-cyclobuta[4,5]pyrano[3,2-c]quinolin-3(4H)-one
<b>Molecular Weight</b>	459.58
<b>Molecular Formula</b>	C <sub>29</sub> H <sub>33</sub> NO <sub>4</sub>
<b>SMILES</b>	<chem>O=C1NC2=CC=CC=C2C3=C1[C@@H]4[C@H](C5=CC=C(OC)C(OC)=C5)[C@@H](C6CCCC6)[C@@H]4C(C)(C)O3</chem>

### References

Neve, Juliette E., et al. "Euodenine A: A Small-Molecule Agonist of Human TLR4." *Journal of medicinal chemistry* 57.4 (2014): 1252-1275.

*For reference only*

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