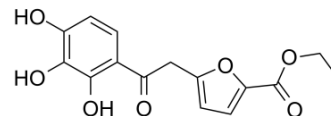


MMG-11

Cat. No.:	HY-112146
CAS No.:	313254-94-3
Molecular Formula:	C ₁₅ H ₁₄ O ₇
Molecular Weight:	306.27
Target:	Toll-like Receptor (TLR)
Pathway:	Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	MMG-11 is a potent and selective human TLR2 antagonist with low cytotoxicity. MMG-11 inhibits both TLR2/1 and TLR2/6 signaling with IC ₅₀ s of 1.7 μM for Pam ₃ CSK ₄ -induced hTLR2/1 and 5.7 μM for Pam ₂ CSK ₄ -induced hTLR2/6 responses ^[1] .								
IC₅₀ & Target	TLR2								
In Vitro	<p>MMG-11 neither shows cellular toxicity nor interference with signaling induced by other TLR agonists, IL-1β or TNF. MMG-11 (0.01-100 μM) shows no cytotoxic effects up to 100 μM in peripheral blood mononuclear cells (PBMCs)^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Cytotoxicity Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>PBMCs</td> </tr> <tr> <td>Concentration:</td> <td>0.01, 1, 10, 100 μM</td> </tr> <tr> <td>Incubation Time:</td> <td></td> </tr> <tr> <td>Result:</td> <td>Showed no cytotoxic effects up to 100 μM.</td> </tr> </table>	Cell Line:	PBMCs	Concentration:	0.01, 1, 10, 100 μM	Incubation Time:		Result:	Showed no cytotoxic effects up to 100 μM.
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Concentration:	0.01, 1, 10, 100 μM								
Incubation Time:									
Result:	Showed no cytotoxic effects up to 100 μM.								

REFERENCES

[1]. Grabowski M, et al. Identification of a pyrogallol derivative as a potent and selective human TLR2 antagonist by structure-based virtual screening. *Biochem Pharmacol.* 2018 Aug;154:148-160.

Caution: Product has not been fully validated for medical applications. For research use only.

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