

## Data Sheet (Cat.No.T16123)

MMG-11

### Chemical Properties

CAS No.:	313254-94-3
Formula:	C <sub>15</sub> H <sub>14</sub> O <sub>7</sub>
Molecular Weight:	306.27
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

### Biological Description

Description	MMG-11 inhibits both TLR2/1 and TLR2/6 signaling (IC <sub>50</sub> : 1.7 μM for Pam3CSK4-induced hTLR2/1 and 5.7 μM for Pam2CSK4-induced hTLR2/6 responses). MMG-11 is an effective and selective human TLR2 antagonist with low cytotoxicity.
Targets(IC <sub>50</sub> )	TLR2: None
In vitro	MMG-11 (0.01-100 μM) shows no cytotoxic effects up to 100 μM in peripheral blood mononuclear cells (PBMCs). MMG-11 neither displays cellular toxicity nor interference with signaling induced by other TLR agonists, IL-1β, or TNF .

### Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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#### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.265 mL	16.325 mL	32.651 mL
5 mM	0.653 mL	3.265 mL	6.53 mL
10 mM	0.327 mL	1.633 mL	3.265 mL
50 mM	0.065 mL	0.327 mL	0.653 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

#### Reference

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.

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