

Product Data Sheet

Product Name: MMG-11
Cat. No.: GC64953

Chemical Properties

Cas. No. 313254-94-3

Formula $C_{15}H_{14}O_7$ M.Wt 306.27

Solubility DMSO : 100 mg/mL (326.51 mM; Storage Store at -20°C
Need ultrasonic)

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

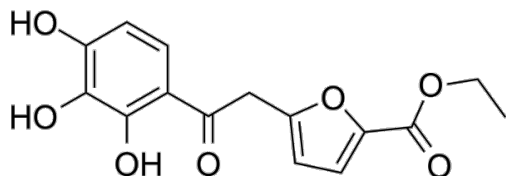
Caution: Product has not been fully validated for medical applications. For research use only.

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Structure



Protocol

TLR2

Background

MMG-11 is a potent and selective human TLR2 antagonist with low cytotoxicity. MMG-11 inhibits both TLR2/1 and TLR2/6 signaling with IC₅₀s of 1.7 μ M for Pam3CSK4-induced hTLR2/1 and 5.7 μ M for Pam2CSK4-induced hTLR2/6 responses[1].

MMG-11 neither shows cellular toxicity nor interference with signaling induced by other TLR agonists, IL-1 β or TNF. MMG-11 (0.01-100 μ M) shows no cytotoxic effects up to 100 μ M in peripheral blood

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mononuclear cells (PBMCs)[1].

[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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