

Product Data Sheet

Product Name: MMI-0100

Cat. No.: GC64580

Chemical Properties

Cas. No. 1039342-24-9

Formula C₉₈H₁₇₁N₃₇O₂₆ M.Wt 2283.64

Solubility Water : 100 mg/mL (43.79 mM; Need ultrasonic) Storage Store at -20°C, protect from light, stored under nitrogen

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.

Structure

YARAAARQARAKALARQLGVAA

Background

MMI-0100 is a cell-permeant peptide inhibitor of mitogen activated protein kinase activated protein kinase II (MK2). MMI-0100 reduces intimal hyperplasia ex vivo and in vivo. MMI-0100 suppresses IL-6 expression without effect on IL-8 expression. MMI-0100 suppresses fibrotic processes such as vein graft disease[1].

Naphthofluorescein (compound 19) (0-10 µM; 24 hours) suppresses the HIF-1 reporter activity in a concentration-dependent manner. [1]. MMI-0100 (0.25 and 0.5 mM; 24 hours) slightly increases cell

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

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proliferation in both cell types compared to control cells treated with 20 ng/ml TNF- α alone[1].MMI-0100 (1 mM) treatment also increases both EC (11%) and SMC (7%) proliferation as compared to control, this response is not as robust as that induced by treatment with 0.5 mM MMI-0100[1].MMI-0100 does not induce EC apoptosis at any dose[1].

MMI-0100 (100 μ M; 28 days) inhibits intimal hyperplasia in a mouse vein graft model[1].

[1]. Akihito Muto, et al. Inhibition of Mitogen Activated Protein Kinase Activated Protein Kinase II with MMI-0100 reduces intimal hyperplasia ex vivo and in vivo. Vascu Pharmacol. Jan-Feb 2012;56(1-2):47-55.

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