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## DATASHEET

MMI 0100

### Product overview

<b>Name</b>	MMI 0100
<b>Cat No</b>	HB3813
<b>Biological action</b>	Inducer
<b>Purity</b>	>95%
<b>Description</b>	MAPKAPK2 (MK2) inhibitor. Cell permeable.

### Biological Data

<b>Biological description</b>	Cell permeable MAPKAPK2 (MK2) inhibitor which targets the MK2 substrate-binding site. Shown to ameliorate memory deficit induced by A $\beta$ 1-42 or lipopolysaccharide in novel object and location tasks. Reduces cardiac and pulmonary fibrosis and ameliorates lung inflammation. Also attenuates DSS-induced body weight loss, colon length shortening, and colonic pathological injury in DSS induced models of acute colitis.
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### Solubility & Handling

<b>Storage instructions</b>	-20 °C
<b>Solubility overview</b>	Soluble in PBS (1 mg/ml), and in DMSO
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

<b>Molecular Weight</b>	2283.64
<b>Molecular Formula</b>	C <sub>98</sub> H <sub>171</sub> N <sub>37</sub> O <sub>26</sub>
<b>CAS Number</b>	1039342-24-9

### References

#### Design of a bioactive cell-penetrating peptide: when a transduction domain does more than transduce.

Ward B et al (2009) Journal of peptide science : an official publication of the European Peptide Society 15

**PubMedID** [19691016](#)

#### Intranasal MMI-0100 Attenuates A $\beta$ (1-42)- and LPS-Induced Neuroinflammation and Memory Impairments via the MK2 Signaling Pathway.

Jiang J et al (2019) Frontiers in immunology 10

**PubMedID** [31849936](#)

#### MMI-0100 Ameliorates Dextran Sulfate Sodium-Induced Colitis in Mice through Targeting MK2 Pathway.

Wang Z et al (2019) Molecules (Basel, Switzerland) 24

**PubMedID** [31382637](#)

**MMI-0100 inhibits cardiac fibrosis in myocardial infarction by direct actions on cardiomyocytes and fibroblasts via MK2 inhibition.**

Xu L et al (2014) Journal of molecular and cellular cardiology 77

**PubMedID** [25257914](#)

**MMI-0100 Inhibits Cardiac Fibrosis in a Mouse Model Overexpressing Cardiac Myosin Binding Protein C.**

Meng Q et al (2017) Journal of the American Heart Association 6

**PubMedID** [28871043](#)

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