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DATASHEET

MMI 0100

Product overview

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

Biological Data

Biological description	Cell permeable MAPKAPK2 (MK2) inhibitor which targets the MK2 substrate-binding site. Shown to ameliorate memory deficit induced by Aβ1-42 or lipopolysaccharide in novel object and location tasks. Reduces cardiac and pulmonary fibrosis and ammeliorates lung inflammation. Also attenuates DSS-induced body weight loss, colon length shortening, and colonic pathological injury in DSS induced models of acute colitis.

Solubility & Handling

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

Chemical Data

Molecular Weight	2283.64
Molecular Formula	$C_{98}H_{171}N_{37}O_{26}$
CAS Number	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 Aβ(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