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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

Solubility overview Soluble in PBS (1 mg/ml), and in DMSO

Storage instructions -20°

Storage of solutions Prepare and use solutions on the same day if possible. Store solutions at -20 °C for up to one month if

storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.

Shipping Conditions

Important

Stable for ambient temperature shipping. Follow storage instructions on receipt.

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

Jiang J et al (2019) Frontiers in immunology 10 **PubMedID** 31849936

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