**Proteins** 



## Mipomersen

Cat. No.: HY-148647 CAS No.: 1000120-98-8

Molecular Weight: 7177 Target: HCV

Pathway: Anti-infection

Storage: Please store the product under the recommended conditions in the Certificate of

Analysis.

# Mipomersen

**Product** Data Sheet

#### **SOLVENT & SOLUBILITY**

In Vitro

 $H_2O : \ge 100 \text{ mg/mL } (13.93 \text{ mM})$ 

\* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	0.1393 mL	0.6967 mL	1.3933 mL
	5 mM	0.0279 mL	0.1393 mL	0.2787 mL
	10 mM	0.0139 mL	0.0697 mL	0.1393 mL

Please refer to the solubility information to select the appropriate solvent.

### **BIOLOGICAL ACTIVITY**

Description		tee base) is an antisense oligonucleotide inhibitor of apolipoprotein B (apoB). Mipomersen has a sthe infectivity of the HCV. Mipomersen can be used for the research of homozygous familial $^{\rm CH}$ [1][2].
In Vitro	Mipomersen (800 and 1000 $\mu$ g/mL; 72 hours) reduces 80%-85% intracellular HCV RNA in Huh7/CD81 WT cells with HCVcc (JFH1) infection <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
In Vivo		twice weekly for 11 weeks) affects levels of h-apoB, h-apoB-100, Lp(a) and OxPL/h-apoB <sup>[1]</sup> . Transgenic mice overexpressing human apolipoprotein B-100 (h-apoB mice) or h-apoB-100 plus human apo(a) (Lp(a) mice) <sup>[1]</sup>
	Dosage:	25 mg/kg

Administration:	Intraperitoneal injection; 25 mg/kg, twice weekly for 11 weeks
Result:	Time-dependently reduced the level of h-apoB-100 in Lp(a) mice and h-apoB in h-apoE mice.

#### **REFERENCES**

- [1]. Merki E, et al. Antisense oligonucleotide directed to human apolipoprotein B-100 reduces lipoprotein(a) levels and oxidized phospholipids on human apolipoprotein B-100 particles in lipoprotein(a) transgenic mice. Circulation. 2008 Aug 12;118(7):743-53.
- [2]. Schaefer EA, et al. Apolipoprotein B100 is required for hepatitis C infectivity and Mipomersen inhibits hepatitis C. World J Gastroenterol. 2016 Dec 7;22(45):9954-9965.

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

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Page 2 of 2 www.MedChemExpress.com