

## Catalog # 10-3202 BML-111

CAS# 78606-80-1 (5S,6R)-Methyl 5,6,7-trihydroxyheptanoate Lot # S104001

A novel truncated analog of lipoxin  $A_4$  which retains anti-inflammatory activity.<sup>1</sup> Inhibits LTB<sub>4</sub>-induced leukocyte chemotaxis, IC<sub>50</sub>=5 nM).<sup>1</sup> Attenuates hemorrhagic shock-induced acute lung injury in a rat model.<sup>2</sup> Displays hepatoprotective effects in acetaminophen-induced liver injury in mice.<sup>3</sup> Limits inflammatory damage in the cerebral cortex and helps maintain blood brain barrier integrity in a rat model of ischemic stroke.<sup>4</sup> Attenuates renal ischemia/reperfusion injury via activation of p38 MAPK/PPAR $\alpha$ /HO-1 pathway.<sup>5</sup>

- 1) Lee et al. (1991), Inhibition of leukotriene B4-induced neutrophil migration by lipoxin A4: structure-function relationships; Biochem. Biophys. Res. Commun., **180** 1416
- 2) Li et al. (2013), BML-111 attenuates hemorrhagic shock-induced acute lung injury through inhibiting activation of mitogen-activated protein kinase pathway in rats; J. Surg. Res., **183** 710
- 3) El-Agamy *et al.* (2014), *Protective effects of BML-111 against acetaminophen-induced acute liver injury in mice*; J. Physiol. Biochem., **70** 141
- 4) Hawkins et al. (2014), Neurovascular protection by post-ischemic intravenous injections of the lipoxin A4 receptor agonist, BML-111, in a rat model of ischemic stroke; J. Neurochem., **129** 130
- 5) Wu et al. (2016), BML-111-Attenuates renal Ischemia/Reperfusion Injury via Peroxisome Proliferator-Activates Receptor-α-Regulated Heme Oxygenase-1; Inflammation, **39** 611

## **PHYSICAL DATA**

 $\begin{array}{lll} \text{Molecular Weight:} & 192.21 \\ \text{Molecular Formula:} & C_8H_{16}O_5 \\ \text{Purity:} & 99\% \text{ by TLC} \\ \end{array}$ 

NMR: (Conforms)

Solubility: Soluble in DMSO (up to 25 mg/ml) or in Ethanol (up to 25 mg/ml)

Physical Description: White solic

Storage and Stability: Store as supplied desiccated at -20°C for up to 1 year from the date of purchase.

Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.