

Certificate of Analysis

www.tocris.com

Product Name: BML 111

Catalog No.: 5488

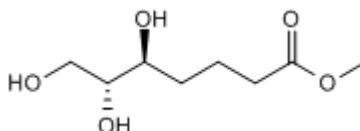
Batch No.: 1

CAS Number: 78606-80-1

IUPAC Name: (5*S*,6*R*)-Methyl 5,6,7-trihydroxyheptanoate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₈H₁₆O₅
Batch Molecular Weight: 192.21
Physical Appearance: White solid
Solubility: water to 100 mM
 DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.29 (Chloroform:Methanol [9:1])
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = -19.6 (Concentration = 0.8, Solvent = Ethanol)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	49.99	8.39	
Found	49.64	8.57	0.1

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

Product Name: BML 111

Catalog No.: 5488

Batch No.: 1

CAS Number: 78606-80-1

IUPAC Name: (5*S*,6*R*)-Methyl 5,6,7-trihydroxyheptanoate

Description:

FPR2 (lipoxin A₄ receptor) agonist. Suppresses tumor-related angiogenesis and reduces tumor growth in hepatoma H22 cell bearing mice. Also protects against hemorrhagic shock-induced acute lung injury in rats. Lipoxin A₄ analog.

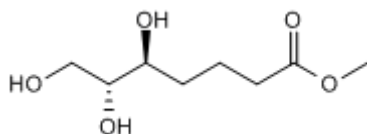
Physical and Chemical Properties:

Batch Molecular Formula: C₈H₁₆O₅

Batch Molecular Weight: 192.21

Physical Appearance: White solid

Batch Molecular Structure:



Storage: Store at -20°C. This product is packaged under an inert atmosphere.

Solubility & Usage Info:

water to 100 mM
DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Gong *et al* (2012) BML-111, a lipoxin receptor agonist, protects haemorrhagic shock-induced acute lung injury in rats. *Resuscitation*. **83** 907. PMID: 22245750.

Chen *et al* (2010) Lipoxin A₄ and its analogue suppress the tumor growth of transplanted H22 in mice: the role of antiangiogenesis. *Mol.Cancer.Ther.* **9** 2164. PMID: 20682645.

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956