



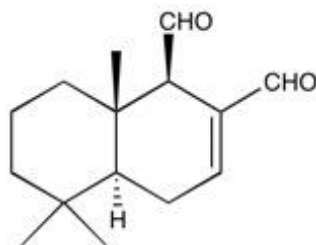
Catalog # 10-1145

Polygodial

CAS# 6754-20-7

(1R,4aS,8aS)-5,5,8a-Trimethyl-1,4,4a,6,7,8-hexahydronaphthalene-1,2-dicarboxaldehyde

Lot # A10156



TRPA1 agonist ($EC_{50}=400$ nM)¹. A naturally occurring drimane sesquiterpene dialdehyde found in a variety of plant species including water pepper (*Polygonum hydropiper*). Has been used in folk medicine for a variety of indications. Displays analgesic activity via desensitization of sensory neurons².

- 1) Escalera *et al.* (2008), *TRPA1 mediates the noxious effects of natural sesquiterpene deterrents*; J. Biol. Chem., **283** 24136
- 2) Andre *et al.* (2004), *Evidence for the involvement of vanilloid receptor in the antinociception produced by the dialdehydes unsaturated sesquiterpenes polygodial and drimanial in rats*; Neuropharmacology, **46** 590

PHYSICAL DATA

Molecular Weight:	234.34
Molecular Formula:	C ₁₅ H ₂₂ O ₂
Purity:	97% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 25 mg/ml) or Ethanol (up to 25 mg/ml)
Physical Description:	Tan waxy solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 2 months.

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

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

www.focusbiomolecules.com