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DATASHEET

MEDICA 16

Product overview

Name	MEDICA 16
Cat No	HB0877
Biological action	Agonist
Description	Free fatty acid 1 (FFA ₁) receptor agonist

Biological Data

Biological description	Free fatty acid 1 (FFA ₁ /GPR40) receptor agonist. Inhibits ATP-citrate lyase and decreases hepatic acetyl-CoA carboxylase activity and plasma triacylglycerol. Sensitizes adipose tissue to insulin.
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Solubility & Handling

Storage instructions	-20 °C
Solubility overview	Soluble in DMSO (100mM) or ethanol (100mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	3,3,14,14-Tetramethylhexadecanedioic acid
Molecular Weight	342.51
Chemical structure	
Molecular Formula	C ₂₀ H ₃₈ O ₄
CAS Number	87272-20-6
PubChem identifier	121871
SMILES	CC(CC(O)=O)(C)CCCCCCCCC(C)(C)CC(O)=O
InChiKey	HYSMCRNFENOHJH-UHFFFAOYSA-N

References

Novel selective ligands for free fatty acid receptors GPR120 and GPR40.

Hara T *et al* (2009) Naunyn Schmiedebergs Arch Pharmacol 380(3)
PubMedID [19471906](#)

MEDICA 16 inhibits hepatic acetyl-CoA carboxylase and reduces plasma triacylglycerol levels in insulin-resistant JCR: LA-cp rats.

Atkinson LL *et al* (2002) Diabetes 51(5)
PubMedID [11978655](#)

Adipose tissue sensitization to insulin induced by troglitazone and MEDICA 16 in obese Zucker rats in vivo.

