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Product Datasheet

Firsocostat, CAS [[1434635-54-7]]

FBM-10-4699

Article Name	Firsocostat, CAS [[1434635-54-7]]
Biozol Catalog Number	FBM-10-4699
Supplier Catalog Number	10-4699
Alternative Catalog Number	FBM-10-4699-5MG,FBM-10-4699-25MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	Allosteric acetyl-CoA carboxylase inhibitor...
Molecular Weight	569.63
Purity	98% by HPLC, NMR (Conforms)
Form	White solid
CAS Number	[1434635-54-7]
Formula	C ₂₈ H ₃₁ N ₃ O ₈ S
Application Notes	<p>Potent (IC₅₀ = 1.7 nM ACC1, 2.6 nM ACC2) allosteric protein-protein interaction inhibitor of acetyl-CoA carboxylase (ACC).¹ It interacts with the ACC phosphopeptide acceptor and dimerization site to inhibit enzymatic activity resulting in decreased fatty acid synthesis and stimulation of fatty acid oxidation. It reduced hepatic steatosis, improves insulin sensitivity, reduces weight gain, and favorably affects dyslipidemia in rats. Firsocostat decreased hepatic steatosis and fibrosis markers in patients with nonalcoholic fatty liver disease.² Directly impairs profibrinogenic activity of hepatic stellate cells (HSC) via prevention of induction of glycolysis and oxidative phosphorylation during HSC activation.³</p>