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## Product Datasheet

### **Bempedoic acid, CAS [[738606-46-7]]** **FBM-10-4114**

Article Name	Bempedoic acid, CAS [[738606-46-7]]
Biozol Catalog Number	FBM-10-4114
Supplier Catalog Number	10-4114
Alternative Catalog Number	FBM-10-4114-10MG,FBM-10-4114-50MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	ATP citrate lyase inhibitor...
Molecular Weight	344.49
Purity	>98% by TLC NMR (Conforms)
Form	White solid
CAS Number	[738606-46-7]
Formula	C19H36O5

Application Notes	<p>Inhibitor of ATP citrate lyase (ACL) and activator of AMPK used in the treatment of hypercholesterolemia.<sup>1,2</sup> In vivo, the active molecule is the CoA ester.<sup>2</sup> Bempedoic acid requires activation by very long-chain acyl-CoA-synthetase (ACSVL1) - the absence of ACSVL1 in skeletal muscle provides a mechanistic basis for its use in statin-intolerant patients.<sup>3</sup> LDL receptor upregulation, decreased LDL-C, and attenuation of atherosclerosis activities are independent of AMPK activation. It significantly cuts the risk of major cardiovascular events.<sup>4</sup> Combination treatment of breast and pancreatic cancer cell lines with bempedoic acid and CDK4/6 inhibitors reduced cell growth and invasion.<sup>5</sup> It displays anti-inflammatory activity possibly through both ACL inhibition<sup>6,7</sup> and AMPK activation<sup>8</sup>.</p>
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