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Product Datasheet

BI01383298, CAS [[2227549-00-8]]

FBM-10-4191

Article Name	BI01383298, CAS [[2227549-00-8]]
Biozol Catalog Number	FBM-10-4191
Supplier Catalog Number	10-4191
Alternative Catalog Number	FBM-10-4191-5MG,FBM-10-4191-25MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	Citrate transporter inhibitor...
Molecular Weight	445.34
Purity	>98% by HPLC NMR (Conforms)
Form	White solid
CAS Number	[2227549-00-8]
Formula	C ₁₉ H ₁₉ Cl ₂ FN ₂ O ₃ S
Application Notes	<p>BI01383298 is a potent, non-competitive, irreversible inhibitor of the human Na⁺-coupled citrate transporter (NaCT/SLC13A5/mINDY).^{1,2} IC₅₀ = 49 nM in the presence of Li⁺ with preincubation and 118 nM without Li⁺. BI01393298 is inactive in mouse NaCT for citrate transport. NaCT delivers citrate, a key metabolite and regulator of multiple biochemical pathways, from the blood to hepatocytes and neurons. Reduced expression of NaCT has been linked to longevity and increased expression has been linked to type 2 diabetes and non-alcoholic fatty liver disease. BI01383298 also blocked transport of arginine, dimethylarginine, and L-homoarginine in both human and mouse NaCT.²</p>