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Product Datasheet

BI01383298, CAS [[2227549-00-8]] FBM-10-4191

Artikelname	BI01383298, CAS [[2227549-00-8]]
Artikelnummer	FBM-10-4191
Hersteller Artikelnummer	10-4191
Alternativnummer	FBM-10-4191-5MG,FBM-10-4191-25MG
Hersteller	Focus Biomolecules
Kategorie	Biochemikalien
Produktbeschreibung	Citrate transporter inhibitor...
Molekulargewicht	445.34
Reinheit	>98% by HPLC NMR (Conforms)
Formulierung	White solid
CAS Nummer	[2227549-00-8]
Formel	C19H19Cl2FN2O3S

Anwendungsbeschreibung

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