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Product Datasheet

JPH203, CAS [[1597402-27-1]]

FBM-10-4464

Article Name	JPH203, CAS [[1597402-27-1]]
Biozol Catalog Number	FBM-10-4464
Supplier Catalog Number	10-4464
Alternative Catalog Number	FBM-10-4464-5MG, FBM-10-4464-25MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	LAT1 inhibitor...
Molecular Weight	454.24
Purity	>98% by HPLC NMR (conforms)
Form	Pale orange/yellow solid
CAS Number	[1597402-27-1]
Formula	C23H19Cl2N3O42HCl

Application Notes

Selective L-type amino acid transporter 1 inhibitor (LAT1 or SLC7A5, IC₅₀ = 140 nM for ¹⁴C-leucine uptake in S2-hLAT1 cells, and 60 nM for HT29 human colon adenocarcinoma cells: growth inhibition IC_{50s} = 16.4 μ M and 4.1 μ M respectively for S2 and HT29 cells).¹ Also active in HT-29 mouse xenograft models. JPH203 is active in a variety of cancer models and has progressed to clinical trials.² It sensitized A549 and MIA Paca-2 cells to radiation by enhancing cellular senescence via mTOR downregulation³ and sensitized EGFR-expressing cancer cell lines to gefitinib therapy⁴. JPH203 treatment of non-small cell lung cancer cells led to downregulation of PD-L1 suggesting that LAT1 inhibition may help overcome the immune suppressive tumor microenvironment.⁵