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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, IC<sub>50</sub> = 140 nM for <sup>14</sup>C-leucine uptake in S2-hLAT1 cells, and 60 nM for HT29 human colon adenocarcinoma cells: growth inhibition IC<sub>50s</sub> = 16.4  $\mu$ M and 4.1  $\mu$ M respectively for S2 and HT29 cells).<sup>1</sup> Also active in HT-29 mouse xenograft models. JPH203 is active in a variety of cancer models and has progressed to clinical trials.<sup>2</sup> It sensitized A549 and MIA Paca-2 cells to radiation by enhancing cellular senescence via mTOR downregulation<sup>3</sup> and sensitized EGFR-expressing cancer cell lines to gefitinib therapy<sup>4</sup>. 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.<sup>5</sup>