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Product Datasheet

JPH203, CAS [[1597402-27-1]] FBM-10-4464

Artikelname	JPH203, CAS [[1597402-27-1]]
Artikelnummer	FBM-10-4464
Hersteller Artikelnummer	10-4464
Alternativnummer	FBM-10-4464-5MG, FBM-10-4464-25MG
Hersteller	Focus Biomolecules
Kategorie	Biochemikalien
Produktbeschreibung	LAT1 inhibitor...
Molekulargewicht	454.24
Reinheit	>98% by HPLC NMR (conforms)
Formulierung	Pale orange/yellow solid
CAS Nummer	[1597402-27-1]
Formel	C23H19Cl2N3O42HCl

Anwendungsbeschreibung	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 IC50s = 16.4 µM and 4.1 µM 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
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