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Product Datasheet

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

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| 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 IC50s = 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