

EFFECTS OF THE NEWLY DEVELOPED LARGE NEUTRAL AMINO ACID TRANSPORTER1 INHIBITOR, JPH203 ON TUMOR MICROENVIRONMENT IN COLORECTAL CANCER

Yasuhiko Kitadai

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Poster

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JPH203, a LAT1-specific inhibitor, demonstrated anti-tumor efficacy in colorectal cancer models through inhibition of both tumor growth and stromal activation pathways.

KEY POINTS

- LAT1 expression was cancer-dominant in colorectal cancer and correlated with prognosis in database analysis and clinical specimens
- JPH203 significantly reduced tumor size and metastasis in an immune-responsive mouse model with abundant stroma
- RNA sequencing analysis showed JPH203 suppressed tumor growth pathways, amino acid metabolism pathways, and stromal activation-related pathways
- The stromal inhibitory effect was validated through multiple methods including immunostaining in clinical specimens and co-culture assays in vitro
- The authors suggest JPH203's stromal inhibitory effect may be relevant for application to other stroma-abundant carcinomas and for combination therapy strategies

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