Novel Irlaign-based Prodrug for Cancer-targeted Bioimaging and Radiochemotherapy

Can a prodrug with improved bioavailability for cancer-targeted bioimaging and radiochemotherapy be synthesized using iridium?

Radiosensitizers (RS) release energy when receiving radiation thus causing cell death and making them useful for radiochemotherapy

Cancer cell

However, they have limited applications due to their low bioavailability and poor tumor visualization

Radiation

Chemical Science

Cy	clometalated Prolonged luminescence	iridium-based (Z=7 Good light stability	7) prodrug Ir-N Sensitivity to acidity content, and viscosit
tighest se	nsitivity	<section-header></section-header>	Effective tumor g suppression
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Ir-NB is a novel tumor chemoradiotherapy agent with effective tumor suppression and bioimaging

Highly x-ray sensitive iridium prodrug for visualized tumor radiochemotherapy



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