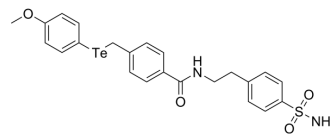


## hCA IX-IN-2

<b>Cat. No.:</b>	HY-152001
<b>Molecular Formula:</b>	C <sub>23</sub> H <sub>24</sub> N <sub>2</sub> O <sub>4</sub> STe
<b>Molecular Weight:</b>	552.11
<b>Target:</b>	Carbonic Anhydrase
<b>Pathway:</b>	Metabolic Enzyme/Protease
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	hCA IX-IN-2 is a potent and selectively hCA IX inhibitor with an K <sub>i</sub> value of 32.1 nM. hCA IX-IN-2 shows anti-proliferative activity <sup>[1]</sup> .											
<b>IC<sub>50</sub> &amp; Target</b>	hCA IX 32.1 nM (Ki)	hCA XII 8.1 nM (Ki)	hCA VII 15.9 nM (Ki)	hCA XIII 95.7 nM (Ki)								
<b>In Vitro</b>	<p>hCA IX-IN-2 (compound 7c) (0-100 μM; 24 h) shows anti-proliferative activity with IC<sub>50</sub>s of 62.5, 0.7121, 12.11, 7.834, 2.356 μM for HDF, MeWo, LN-229, SaOS-2, HepG2 cells, respectively<sup>[1]</sup>.</p> <p>hCA IX-IN-2 (62.5 μM for NHDF, 2.365 μM for HepG2) induces a significant decrease in O<sub>2</sub><sup>•-</sup> production in NHDF and HepG2 cells<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Cytotoxicity Assay<sup>[1]</sup></p> <table border="1"> <tr> <td>Cell Line:</td> <td>NHDF, MeWo, LN-229, SaOS-2, HepG2 cells</td> </tr> <tr> <td>Concentration:</td> <td>0, 5, 10, 30, 70, 100 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>24 h</td> </tr> <tr> <td>Result:</td> <td>Inhibited cell growth with IC<sub>50</sub>s of 62.5, 0.7121, 12.11, 7.834, 2.356 μM for HDF, MeWo, LN-229, SaOS-2, HepG2 cells, respectively.</td> </tr> </table>				Cell Line:	NHDF, MeWo, LN-229, SaOS-2, HepG2 cells	Concentration:	0, 5, 10, 30, 70, 100 μM	Incubation Time:	24 h	Result:	Inhibited cell growth with IC <sub>50</sub> s of 62.5, 0.7121, 12.11, 7.834, 2.356 μM for HDF, MeWo, LN-229, SaOS-2, HepG2 cells, respectively.
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### REFERENCES

[1]. Petreni A, et al. Carbonic Anhydrase inhibitors bearing organotelluride moieties as novel agents for antitumor therapy. Eur J Med Chem. 2022 Dec 15;244:114811.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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