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# Biological evaluation of *p*-toluene sulphonylhydrazone as carbonic anhydrase IX inhibitors: an approach to fight hypoxia-induced tumors

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*Running head: CAIX Inhibitors*

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## **Highlights**

- Three *p*-Toluene sulphonylhydrazone derivatives are synthesized and tested for CAIX inhibition assay.
- Compound 1 and 2 bind CAIX with high affinity.
- Both compound 1 and 2 inhibits CAIX enzyme activity with IC<sub>50</sub> values in nM range.
- These compounds induce apoptosis in hypoxic HeLa and HT-29 cells.

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