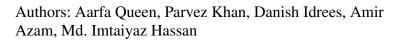
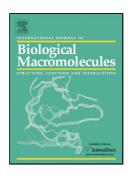
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ACCEPTED MANUSCRIPT

Biological evaluation of p-toluene sulphonylhydrazone as carbonic anhydrase IX inhibitors: an approach to fight hypoxiainduced tumors

Aarfa Queen¹, Parvez Khan², Danish Idrees², Amir Azam^{1,*} and Md. Imtaiyaz Hassan^{2,*}

¹Department of Chemistry, Jamia Millia Islamia, New Delhi-110025, India ²Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi-110025, India

Running head: CAIX Inhibitors

*To whom correspondence should be addressed

Dr. Md. Imtaiyaz Hassan

Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi-110025, India Tel.: +91-9990323217 E-mail: mihassan@jmi.ac.in

Prof. Amir Azam

Department of Chemistry Jamia Millia Islamia, New Delhi-110025, India Tel.: +91-11-26981717/3254; fax: 91-11-26980229; E-mail: amir_sumbul@yahoo.co.in

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 IC₅₀ values in nM range.
- These compounds induce apoptosis in hypoxic HeLa and HT-29 cells.

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