

PHARMACEUTICS & ADVANCED DRUG DELIVERY SYSTEMS

March 27-28, 2023 | London, UK

Received date: 25-07-2022 | Accepted date: 27-07-2022 | Published date: 03-04-2023

Pharmacological studies pertaining to spasmolytic, bronchodilator and vasodilating effect of *Typha domingensis*: An evidence-based approach

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This study was designed to analyze the pharmacological effects of *Typha domingensis* crude 70% aqueous ethanol extract of *Typha domingensis* (Td. Cr) in gastrointestinal, respiratory and vascular diseases. Rabbits (2.0-3.0 kg) and BALB/c mice (20-40 g) of local breed have been used as experimental animals using the established methodologies from literature with slight modification. The findings suggested that *Typha domingensis* caused complete relaxation of spontaneous and K⁺ (80mM)-induced contractions in isolated rabbit jejunum. Rightward parallel shift of calcium concentration response curves was observed. *Typha domingensis* exhibited relaxant effect on Carbachol (Cch)-induced contractions in isolated rabbit tracheal preparations. Furthermore, *Typha domingensis* caused relaxation of phenylephrine (1 μ M)-induced contractions in isolated rabbit aorta preparations. These effects were similar to verapamil, a standard calcium channel blocker. These findings could be the basis for explaining the spasmolytic, bronchodilator and vasodilator activities of the extract, through a possible calcium channel blocking activity.

Recent Publications

1. Abid, A. , Muzammel, H. , Shafi, H. , Nisa, M. , Ali, H. , Afzal, M., Khan, N. and Muzammil, F. (2022) Antidiabetic Potential of

Carthamus oxycantha M.Bieb. Seeds in Alloxan Induced Diabetic Rats. *Pharmacology & Pharmacy*, 13, 189-198. doi: 10.4236/pp.2022.136015.

2. Rasool, M. F., Qureshi, U. F., Ranjha, N. M., Imran, I., Nisa, M. U., & Majeed, A. (2021). Development and validation of reversed phase high performance liquid chromatography (RP-HPLC) for quantification of captopril in rabbit plasma, *Acta Chromatographica*, 33(4), 315-321. Retrieved Jul 13, 2022.
3. Shahzad Q, et al. Assessment of Self-Medication and Disease Awareness about Migraine in Local Community of Multan, Pakistan. *Pharm Res* 2021, 5(1): 000227.

Biography

Mouqadas-Un-Nisa has completed her PhD in 2020 at the age of 35 years in Pharmacology. She is Director of Drugs Testing Laboratory, Punjab, Multan and Drugs Testing Laboratory Punjab Bahawalpur. She is also a member of USP committee in Pakistan and has participated in different Trainings from LGC London, TMMDA Turkey, PFSA Pakistan and Dubai. She has a strong technical knowledge and have expertise in high-Tech Equipment like UPLC, HPLC, UV-VIS, Dissolution Apparatus and atomic Absorption Spectrometer. She has 06 publications with good impact factor. She teaches Pharmacology in TIMES Institute as a lecturer.

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