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**Record 1 of 1****Title:** Synthesis of Chromen-4-One-Oxadiazole Substituted Analogs as Potent -Glucuronidase Inhibitors**Author(s):** Taha, M (Taha, Muhammad); Rahim, F (Rahim, Fazal); Ali, M (Ali, Muhammad); Khan, MN (Khan, Muhammad Naseem); Alqahtani, MA (Alqahtani, Mohammed A.); Bamarouf, YA (Bamarouf, Yasser A.); Gollapalli, M (Gollapalli, Mohammed); Farooq, RK (Farooq, Rai Khalid); Shah, SAA (Shah, Syed Adnan Ali); Ahmed, QU (Ahmed, Qamar Uddin); Zakaria, ZA (Zakaria, Zainul Amiruddin)**Source:** MOLECULES **Volume:** 24 **Issue:** 8 **Article Number:** 1528 **DOI:** 10.3390/molecules24081528 **Published:** APR 2 2019**Times Cited in Web of Science Core Collection:** 0**Total Times Cited:** 0**Usage Count (Last 180 days):** 4**Usage Count (Since 2013):** 4**Cited Reference Count:** 49**Abstract:** Chromen-4-one substituted oxadiazole analogs 1-19 have been synthesized, characterized and evaluated for -glucuronidase inhibition. All analogs exhibited a variable degree of -glucuronidase inhibitory activity with IC50 values ranging in between 0.8 +/- 0.1-42.3 +/- 0.8 M when compared with the standard d-saccharic acid 1,4 lactone (IC50 = 48.1 +/- 1.2 M). Structure activity relationship has been established for all compounds. Molecular docking studies were performed to predict the binding interaction of the compounds with the active site of enzyme.**Accession Number:** WOS:000467765700083**PubMed ID:** 31003424**Language:** English**Document Type:** Article**Author Keywords:** chromen-4-one; oxadiazole; synthesis; -glucuronidase inhibition; molecular docking; SAR**KeyWords Plus:** URINARY BETA-GLUCURONIDASE; ALPHA-GLUCOSIDASE INHIBITION; IN-VITRO EVALUATION; MOLECULAR DOCKING; HYBRID MOLECULES; AKT INHIBITORS; DESIGN; DERIVATIVES; BENZOTHAZOLE; ANTIBACTERIAL**Addresses:** [Taha, Muhammad] Imam Abdulrahman Bin Faisal Univ, Dept Clin Pharm, IRMC, POB 1982, Dammam 31441, Saudi Arabia.

[Rahim, Fazal] Hazara Univ, Dept Chem, Mansehra 21300, Khyber Pakhtunk, Pakistan.

[Ali, Muhammad] Univ Nizwa, Nat & Med Sci Res Ctr, POB 33, Birkat Al Mauz 616, Nizwa, Oman.

[Khan, Muhammad Naseem] COMSATS Inst Informat Technol, Dept Chem, Univ Rd, Abbottabad 22060, Kpk, Pakistan.

[Alqahtani, Mohammed A.; Bamarouf, Yasser A.; Gollapalli, Mohammed] Imam Abdulrahman Bin Faisal Univ, Dept Comp Informat Syst, Coll Comp Sci & Informat Technol, POB 1982, Dammam 31441, Saudi Arabia.

[Farooq, Rai Khalid] Imam Abdulrahman Bin Faisal Univ, Dept Neurosci Res, IRMC, POB 1982, Dammam 3144, Saudi Arabia.

[Shah, Syed Adnan Ali] Univ Teknol MARA, Fac Pharm, Puncak Alam Campus, Bandar Puncak Alam 42300, Selangor De, Malaysia.

[Shah, Syed Adnan Ali] Univ Teknol MARA, Atta Ur Rahman Inst Nat Prod Discovery AuRIns, Puncak Alam Campus, Bandar Puncak Alam 42300, Selangor De, Malaysia.

[Ahmed, Qamar Uddin] Int Islamic Univ Malaysia, Dept Pharmaceut Chem, Kulliyah Pharm, Kuantan 25200, Pahang Dm, Malaysia.

[Zakaria, Zainul Amiruddin] Univ Putra Malaysia, Dept Biomed Sci, Fac Med & Hlth Sci, Serdang 43400, Selangor, Malaysia.

[Zakaria, Zainul Amiruddin] Univ Putra Malaysia, Halal Inst Res Inst, Serdang 43400, Selangor, Malaysia.

Reprint Address: Taha, M (reprint author), Imam Abdulrahman Bin Faisal Univ, Dept Clin Pharm, IRMC, POB 1982, Dammam 31441, Saudi Arabia.

Zakaria, ZA (reprint author), Univ Putra Malaysia, Dept Biomed Sci, Fac Med & Hlth Sci, Serdang 43400, Selangor, Malaysia.

Zakaria, ZA (reprint author), Univ Putra Malaysia, Halal Inst Res Inst, Serdang 43400, Selangor, Malaysia.

E-mail Addresses: mtaha@iau.edu.sa; fazalstar@gmail.com; m_alisaad@yahoo.com; naseemkhan.tareen@gmail.com; maqhtani@iau.edu.sa; yabamarouf@iau.edu.sa; magollapalli@iau.edu.sa; rkfarooq@iau.edu.sa; benzene301@yahoo.com; quahmed@iiu.edu.my; zaz@upm.edu.my**Author Identifiers:**

Author	Web of Science ResearcherID	ORCID Number
SHAH, SYED ADNAN	O-8836-2016	0000-0002-8142-5013
Ahmed, Qamar Uddin		0000-0003-0565-3222
Gollapalli, Mohammed		0000-0002-7521-5757

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