



**Sinai University Weekly Scientific
Publications 2025**
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Documents

Export Date: 06 Jan 2025

- 1) Fayed, E.A., El-Sebaey, S.A., Ebrahim, M.A., Abu-Elfotuh, K., El-Sayed Mansour, R., Mohamed, E.K., Hamdan, A.M.E., Al-subaie, F.T., Albalawi, G.S., Albalawi, T.M., Hamdan, A.M., Mohammed, A.A., Ramsis, T.M.

[Discovery of novel bicyclic and tricyclic cyclohepta\[b\]thiophene derivatives as multipotent AChE and BChE inhibitors, in-Vivo and in-Vitro assays, ADMET and molecular docking simulation](#)

(2025) European Journal of Medicinal Chemistry, 284, art. no. 117201, .

- 1) <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85213204000&doi=10.1016%2fj.ejmech.2024.117201&partnerID=40&md5=84b658>
DOI: 10.1016/j.ejmech.2024.117201

Document Type: Article

Publication Stage: Final

Access Type: Open Access

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- 2) Alshehri, S.A., Sayyed, M.I., Amin, H.Y., Sadeq, M.S.

[The role of BaO/ZnO ratio in the structure and radiation shielding capacity of Na2O–CoO–B2O3 glass matrix](#)

(2025) Optical Materials, 159, art. no. 116574, .

- 2) <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85213227852&doi=10.1016%2fj.optmat.2024.116574&partnerID=40&md5=84b658>
DOI: 10.1016/j.optmat.2024.116574

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- 3) Almohamady, H.I., Mortagi, Y., Gad, S., Zaitone, S., Alshaman, R., Alattar, A., Alanazi, F.E., Hanna, P.A.

[Spanlastic Nano-Vesicles: A Novel Approach to Improve the Dissolution, Bioavailability, and Pharmacokinetic Behavior of Famotidine](#)

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- 3) <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85213278740&doi=10.3390%2fph17121614&partnerID=40&md5=84b658>
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- 4) Ibrahim, A.E., Alamir, S.G., Maged, K., Magdy, G., Salman, B.I., Al-Harrasi, A.
[Leveraging Green Chromatography in Quality-by-Design-Driven Study for the Simultaneous Analysis of Essential Single-Pill Antidiabetic Drug Combinations](#)
(2024) Journal of Separation Science, 47 (24), art. no. e70063, .

- 4) <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85213065562&doi=10.1002%2fjssc.70063&partnerID=40&md5=6158a44>
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- 5) Matarneh, S., Elghaish, F., Edwards, D.J., Rahimian, F.P., Abdellatef, E., Ejohwomu, O.
[AUTOMATIC CRACK CLASSIFICATION ON ASPHALT PAVEMENT SURFACES USING CONVOLUTIONAL NEURAL NETWORKS AND TRANSFER LEARNING](#)
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- 6) Siddiq, A., Shrestha, S., Das, M., Chodnekar, S.Y., Wadan, A.-H.S., Ayad, Y.W., Ashraf, G.M.
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- 7) Ragab, M., Soliman, A.-H., Shaltout, A.E.-R., El-Ramly, T.A., Morris, M., Mohamed, O.A.A., Ibrahim, R., Dakhlaah, D.
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- 8) Gami, F., Guizani, I., Sebak, M.A., Alzara, M.A.A., Alharbi, H.G., Amin, H.Y., Elkelany, E.A.
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Export Date: 13 Jan 2025

- 1) Silva, I.M., Melo Neto, O.D.M., Youssef, A.M., Lopes Lucena, L.C.D.F., Da Silva Araújo, I.A., Azam, A.
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- 1) <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85213816452&doi=10.1061%2fJMCEE7.MTENG-19112&partnerID=40&DOI=10.1061/JMCEE7.MTENG-19112>

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- 2) Rajab, H.A., Al-Kuraishy, H.M., Shokr, M.M., Al-Gareeb, A.I., Al-Harchan, N.A., Alruwaili, M., Papadakis, M., Alexiou, A., Batiha, G.E.-S.
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- 2) <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85213943012&doi=10.1016%2fj.neuroscience.2024.12.059&partnerID=40&DOI=10.1016/j.neuroscience.2024.12.059>

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- 3) Elnaggar, M.Y., Zaki, E.G., Wahab, L.A.
[A study based on biochar as a reinforcing agent of irradiated waste thermoplastic composite for polymer engineering and electromagnetic shielding applications](#)
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- 3) <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85214214299&doi=10.1080%2f09593330.2024.2447625&partnerID=40&DOI=10.1080/09593330.2024.2447625>

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- 4) El-Hussein, I.G.
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- 4) https://www.scopus.com/inward/record.uri?eid=2-s2.0-85214306731&doi=10.4103%2ftdj.tdj_16_23&partnerID=40&md5=0ce792
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- 5) Wadan, A.-H.S., Mohamed, W.

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- 1) Basiouny, S.M., Zaki, H.F., Elshazly, S.M., Mohamed, A.F.
[Berberine ameliorates seizure activity and cardiac dysfunction in pentylenetetrazol-kindling seizures in rats: Modulation of sigma1 receptor, Akt/eNOS signaling, and ferroptosis](#)
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- 2) Helal, D.A., Osama, A., El-Nabarawi, M.A., Teaima, M.H., Ibrahim Al-Samadi, I.E.
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- 5) El-Hussein, I.G.
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- 1) Amin, H.Y., Siddiq, H.A., Madkhali, M.M.M., Alshehri, S.A., Alshamari, A., Sadeq, M.S.
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- 2) Mubark, A.E., Zaki, E.G., Hakem, H.A., Abdel-Rahman, A.A.H., Elsaeed, S.M., Elkelish, A.
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- 4) Hamed, D.A., Tawfik, B.B.S., Makhoulf, M.A.
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- 3) Fattah Khedr, A.A., Abul-Magd, A.A.

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- 3) <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85215986327&doi=10.1016%2fj.optmat.2025.116717&partnerID=40&md5=>
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☐	Article • Article in Press • Open access Liraglutide mitigates dexamethasone-induced fatty acid synthase (FASN) and the cluster of differentiation36 (CD36) expression: a potential treatment for glucocorticoid-induced non-alcoholic fatty liver disease (NAFLD)	Selim, D.H. , Mokhlis, H.A. , Elsayed, A.M. , ... Salama, S.A. , Ismail, R.S.	Naunyn-Schmiedeberg's Archives of Pharmacology	2025	0
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☐	Review • Article in Press MircoRNAs predict and modulate responses to chemotherapy in leukemic patients	Ellakwa, D.E.-S. , Abdelmalek, M.A. , Mostafa, M.M. , Ellakwa, T.E. , Wadan, A.-H.S.	Naunyn-Schmiedeberg's Archives of Pharmacology	2025	1
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	Review				
☐ 5	HMGB1: Different secretion pathways with pivotal role in epilepsy and major depressive disorder	Shokr, M.M. , Eladawy, R.M.	Neuroscience , 570, pp. 55–67	2025	0
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☐ 6	Probiotics reverse gut dysbiosis and memory impairment associated with esomeprazole use in chronically stressed rats: A significant neuroprotective role for cholecystokinin	Eladawy, R.M. , Ahmed, L.A. , Salem, M.B. , ... Salem, H.A. , Mohamed, A.F.	International Immunopharmacology , 150, 114227	2025	0
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☐ 7	Brain interleukins and Alzheimer's disease	Abdelhamed, H.G. , Hassan, A.A. , Sakraan, A.A. , ... Khadrawy, Y.A. , Radwan, N.M.	Metabolic brain disease , 40(2), pp. 116	2025	0
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☐ 8	Exploring the photocatalytic performance of borosilicate glass nanocomposites modified with MnO₂ for environmental safety	Moustafa, M.G. , Aladim, A.K. , Kubuki, S. , Ibrahim, A.	Ceramics International	2025	0
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☐ 9	Mapping brain neural networks in stress brain connectivity	Wadan, A.-H.S. , Ahmed, M.A. , Moradikor, N.	Progress in Brain Research	2025	0
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☐ 10	Investigation of bacterial gut microbiome in diverse Egyptian populations “pilot study”	Mohamed, K.T. , Shabayek, S. , Mahmoud, N.F. , Tawfick, M.M. , Hanora, A.M.S.	Cellular and Molecular Biology , 71(1), pp. 75–87	2025	0
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☐ 1	Association of Zinc Finger-76 rs10947540 polymorphism and its gene expression in Egyptian patients with systemic lupus erythematosus	<u>Ahmed, I.M., Elimam, H., Ibrahim, M.E., ... Mesbah, N.M., Abdel-Hamed, A.R.</u>	<u>Gene</u> , 948, 149343	2025	0
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2	Cardioprotective, anti-inflammatory, and antioxidative outcome of costus against bleomycin-induced cardiotoxicity in rat model	Alrashdi, B.M. , Askar, H. , Germoush, M.O. , ... Gadelmawla, M.H.A. , Ashry, M.	Journal of Genetic Engineering and Biotechnology , 23(1), 100466	2025	0
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Design, synthesis and biological screening of some diaryl acetamide derivatives as potential cytotoxic agents on HL-60(TB) cell line

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DOI: 10.1016/j.bioorg.2025.108999



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Abstract

In this study, novel diaryl acetamide derivatives were designed and evaluated as potential cytotoxic agents against the leukemic cells HL-60

(TB) with tyrosine kinase FMS-3(FLT-3) enzyme inhibitory activity. The designed molecules were synthesized and investigated for the FLT3 enzyme inhibition. Compounds 5a, 15b, and 16b showed significant inhibitory activity against the FLT-3 enzyme. Assessment of cytotoxicity on HL-60 cells revealed that compound 15b exhibited superior activity than Quizartinib (AC220). Additionally, compounds 5a and 15b effectively arrested the cell cycle at the G₁ phase upon testing on HL-60 cells, suggesting potential abilities in blocking HL-60 cells' proliferation. The annexin-V stain assay demonstrated that compounds 5a, 15b, and 16b induced apoptosis in HL-60 cells. Furthermore, the ELISA assay showed that the blocking of cell cycle proliferation of HL-60 cells was mediated via the induction of cell cycle regulatory proteins p53 and p21. Meanwhile, the observed apoptosis induction was mediated by increasing apoptotic mediators, Bax/Bcl-2 ratio, and up-regulating caspase-3. Molecular docking studies revealed the binding affinities and interactions of the newly synthesized compounds, along with the reference compound Quizartinib, with the FLT-3 enzyme binding site. © 2025 Elsevier Inc.

Author keywords

Diaryl acetamide; Dimedone; FLT-3 kinase inhibitors; HL-60 (TB); Leukemia; Oxadiazole; Quizartinib; Thiazole; Triazole

Indexed keywords

EMTREE drug terms

2 [[4 (4 chlorophenyl)thiazol 2 yl)amino] n [4 [(5,5 dimethyl 3 oxocyclohex 1 en 1 yl)amino]phenyl]acetamide; 2 [[5 (4 chlorophenyl) 1,3,4 oxathiazol 2 yl)thio] n [4 [(5,5 dimethyl 3 oxocyclohex 1 en 1 yl)amino]phenyl]acetamide; 2 [[5 (4 chlorophenyl) 4 phenyl 4h 1,2,4 triazol 3 yl)thio] n [4 [(5,5 dimethyl 3 oxocyclohex 1 en 1 yl)amino]phenyl]acetamide; 5,5 dimethyl 1,3 cyclohexanedione; acetamide derivative; antineoplastic agent; caspase 3; cytotoxic agent; diaryl acetamide derivative; Flt3 ligand; protein Bax; protein bcl 2; protein p21; protein p53; quizartinib; unclassified drug

EMTREE medical terms

alkylation; antineoplastic activity; antiproliferative activity; Article; binding affinity; carbon nuclear magnetic resonance; controlled study; drug design; drug screening; drug synthesis; enzyme binding; enzyme inhibition; enzyme linked immunosorbent assay; flow cytometry; G1 phase cell cycle checkpoint; HL-60 cell line; human; human cell; in vitro study; molecular docking; proton nuclear magnetic resonance

Drug trade names

Commercial names given to drugs, used for branding and differentiation in the market, commonly referenced in scientific and clinical research. ac 220

Chemicals and CAS Registry Numbers

Unique identifiers assigned by the Chemical Abstracts Service (CAS) to ensure accurate identification and tracking of chemicals across scientific literature.

5,5 dimethyl 1,3 cyclohexanedione	126-81-8
protein bcl 2	219306-68-0

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Funding text 2

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