



UNIVERZITA KARLOVA
Farmaceutická fakulta
v Hradci Králové

Zápis o části státní závěrečné zkoušky Obhajoba diplomové práce

Akademický rok: 2022/2023

Jméno a příjmení studenta: Amir Hossein Fekri
Identifikační číslo studenta: 59594695

Typ studijního programu: magisterský
Studijní program: Farmacie
Studijní obor: Farmacie
ID studia: 599098

Název práce: Design, synthesis and evaluation of heterocyclic compounds with potential antimicrobial activity IV
Pracoviště práce: Department of Pharmaceutical Chemistry and Pharmaceutical Analysis (16-16190)

Jazyk práce: angličtina
Jazyk obhajoby: English
Vedoucí: doc. PharmDr. Jan Zitko, Ph.D.
Oponent(i): doc. PharmDr. Miroslav Miletín, Ph.D.

Datum obhajoby: 14.09.2023
Termín: řádný
Místo obhajoby: Hradec Králové

Průběh obhajoby: Using a PowerPoint presentation, the student presented the committee with the key results of his diploma thesis. In the introduction, he talked about tuberculosis, pyrazinamide as a first-line antitubercular drug and structural core for the designed compounds, and specific molecular targets involved in the design of the title compounds (prolyl-tRNA synthetase and aspartate decarboxylase of Mycobacterium tuberculosis). Then, the student described the synthetic work performed and summarized the biological results of compounds prepared in the project. In the end, he also presented results of in silico simulations of the binding of prepared compounds to mycobacterial prolyl-tRNA synthetase. After the presentation, the supervisor doc. Zitko read his evaluation. Subsequently, doc. Miletín read his opponent's evaluation. Both evaluations were generally positive. The student answered all questions of the opponent, and the opponent was satisfied with the answers. In general discussion, prof. Zimčík asked about the role of isopropanol in the hydrazine-mediated reduction of the diacylated side-product. Dr. Demuth asked what the criterion was for the selection of NMR spectra attached in graphical form as a supplement to the diploma thesis. The student's answers were logical and proved his knowledge of the topic. Therefore, the committee decided that the thesis was successfully defended.

Výsledek obhajoby: výborně (1)

Předseda komise: prof. PharmDr. Petr Zimčík, Ph.D.

Členové komise: doc. PharmDr. Radim Kučera, Ph.D.

doc. PharmDr. Jan Zitko, Ph.D.