



UNIVERZITA KARLOVA
Farmaceutická fakulta
v Hradci Králové

Zápis o části státní závěrečné zkoušky Obhajoba diplomové práce

Akademický rok: 2022/2023

Jméno a příjmení studenta: Andro Haddad
Identifikační číslo studenta: 93932945

Typ studijního programu: magisterský
Studijní program: Farmacie
Studijní obor: Farmacie
ID studia: 599100

Název práce: Isocitrate dehydrogenase 2 inhibitor enasidenib synergizes daunorubicin cytotoxicity by targeting aldo-keto reductase 1C3.
Pracoviště práce: Department of Biochemical Sciences (16-16160)
Jazyk práce: angličtina
Jazyk obhajoby: English
Vedoucí: prof. Ing. Vladimír Wsól, Ph.D.
Oponent(i): RNDr. Miloslav Macháček, Ph.D.
Datum obhajoby: 02.06.2023 **Místo obhajoby:** Hradec Králové
Termín: řádný

Průběh obhajoby: Diploma student Andro Haddad elaborated his experimental diploma thesis under the supervision of prof. Wsól and consultant dr. Morell Garcia. The aim of Andro's diploma thesis was to investigate the potential of enasidenib, a clinically used inhibitor of isocitrate dehydrogenase, as a novel strategy to prevent anthracycline resistance mediated by aldo-keto reductases in vitro. Andro presented the obtained results to the committee. The opponent of this diploma thesis was dr. Macháček, who states that the thesis is of a high quality and very well written. He has several comments and questions.
Can you give an example of a metabolic disease in which AKR1C3 is overexpressed?
Was the DMEM medium (Lonza) supplemented only with FBS?
Can you explain why HCT116 and A549 cells were used for transfection experiments?
How were the concentrations of enasidenib (10 and 50 μ M) chosen for the experiments with aldo-keto reductases? (p. 38)
Which disease(s) are treated with enasidenib in clinical practice?
The student answered the questions from opponent and members of the committee very well.

Výsledek obhajoby:	výborně (1)	
Předseda komise:	prof. Ing. Vladimír Wsól, Ph.D.
Členové komise:	doc. PharmDr. Iva Boušová, Ph.D.
	doc. Ing. Petra Matoušková, Ph.D.
	RNDr. Lucie Raisová Stuchlíková, Ph.D.
	RNDr. Miloslav Macháček, Ph.D.