

Synthesis, Structure, and Biological Activity of Cinnamoyl-Containing Cytisine and Anabasine Alkaloids Derivatives

O. A. Nurkenov^{a*}, Zh. S. Nurmaganbetov^{a, b}, T. M. Seilkhanov^c, S. D. Fazylov^a,
Zh. B. Satpayeva^a, K. M. Turdybekov^d, S. A. Talipov^e, and R. B. Seydakhmetova^f

^a *Institute of Organic Synthesis and Coal Chemistry of the Republic of Kazakhstan,
ul. Alikhanova 1, Karaganda, 100008 Kazakhstan*

**e-mail: nurkenov_oral@mail.ru*

^b *Karaganda State Medical University, Karaganda, Kazakhstan*

^c *Sh. Ualikhanov Kokshetau State University, Kokshetau, Kazakhstan*

^d *E.A. Buketov Karaganda State University, Karaganda, Kazakhstan*

^e *A.S. Sadykov Institute of Bioorganic Chemistry, Academy of Sciences of the Republic of Uzbekistan, Tashkent, Uzbekistan*

^f *International Research and Production Holding "Phytochemistry", Karaganda, Kazakhstan*

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Abstract—The reactions of the cytisine and anabasine alkaloids with cinnamic acid chloride have been studied, and hydrazinolysis of the resulting *N*-cinnamoylcytisine and *N*-cinnamoylanabazine has been carried out. The reaction of cinnamoyl isothiocyanate with alkaloids has afforded the corresponding thiourea derivatives. Antimicrobial and cytotoxic activity of cinnamoyl-containing derivatives of these alkaloids has been evaluated.

Keywords: cytisine, anabasine, *N*-cinnamoylcytisine, *N*-cinnamoylanabazine, cinnamoyl chloride

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