

Article

Inhibitory effects of Bisphenol Z on 11 β -hydroxysteroid dehydrogenase 1 and *in silico* molecular docking analysis

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Supplementary Materials - Linearity, standard solutions for calibration curve of corticosterone

Linearity of the calibration curve was estimated for the peak area of each corticosterone standards. Calibration curve was constructed by analyzing the corticosterone standards at concentrations ranging from 0.1 μ M to 577 μ M and obtained by means of the least square method. The graph is presented in Figure S1.

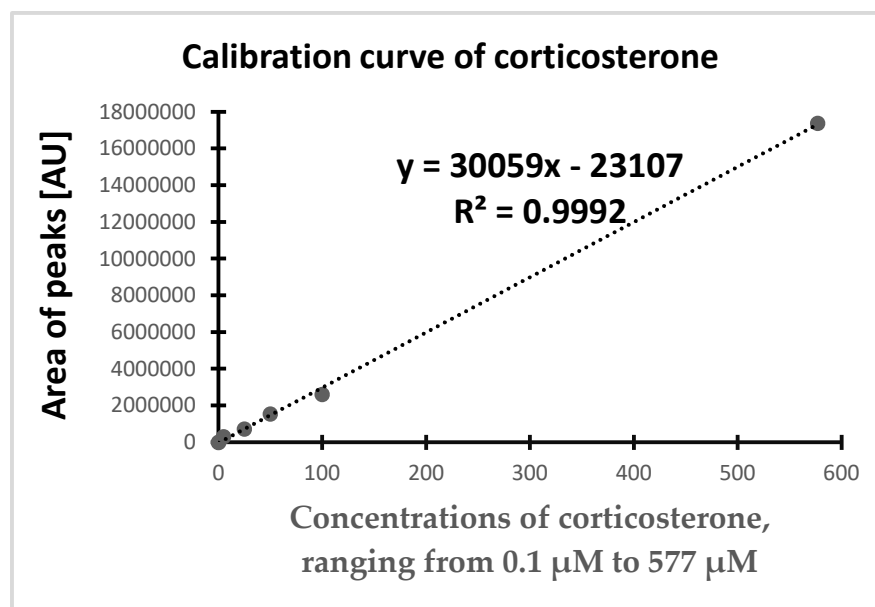


Figure S1. Calibration curve of corticosterone in the concentration range of 0.1 μ M–577 μ M.

Supplementary Materials—Reaction conditions for the enzyme activity experiments (Tables S1, S2, S3).

Table S1. Example preparation of the reaction mixture for the enzyme activity experiments with BPZ at 5 μ M.

Concentration of DHC	Buffer BPS	BPZ	D-Glucose 6-phosphate	DHC	NADPH	11 β -HSD1

			sodium salt			
1 μM	216.6 μ l	8.4 μ l	100 μ l	25 μ l	100 μ l	50 μ l
2 μM	191.6 μ l	8.4 μ l	100 μ l	50 μ l	100 μ l	50 μ l
2.5 μM	179.1 μ l	8.4 μ l	100 μ l	62.5 μ l	100 μ l	50 μ l
3 μM	166.6 μ l	8.4 μ l	100 μ l	75 μ l	100 μ l	50 μ l

Table S2. Example preparation of the reaction mixture for the enzyme activity experiments with BPZ at 10 μ M.

Concentration of DHC	Buffer BPS	BPZ	D-Glucose 6-phosphate sodium salt	DHC	NADPH	11 β -HSD1
1 μM	208.2 μ l	16.8 μ l	100 μ l	25 μ l	100 μ l	50 μ l
2 μM	183.2 μ l	16.8 μ l	100 μ l	50 μ l	100 μ l	50 μ l
2.5 μM	170.7 μ l	16.8 μ l	100 μ l	62.5 μ l	100 μ l	50 μ l
3 μM	158.2 μ l	16.8 μ l	100 μ l	75 μ l	100 μ l	50 μ l

Table S3. Example preparation of the reaction mixture for the enzyme activity experiments with BPZ at 20 μ M.

Concentration of DHC	Buffer BPS	BPZ	D-Glucose 6-phosphate sodium salt	DHC	NADPH	11 β -HSD1
1 μM	191.4 μ l	33.6 μ l	100 μ l	25 μ l	100 μ l	50 μ l
2 μM	166.4 μ l	33.6 μ l	100 μ l	50 μ l	100 μ l	50 μ l
2.5 μM	153.9 μ l	33.6 μ l	100 μ l	62.5 μ l	100 μ l	50 μ l
3 μM	141.4 μ l	33.6 μ l	100 μ l	75 μ l	100 μ l	50 μ l