

Supplemental Table 1

Adrenal Enzyme <i>Product/Precursor</i>	Cortisol Treatment		Fold Change
	-	+	
17α Hydroxylase			
<i>17αOHPreg/Preg</i>	1.7 \pm 0.1	4.2 \pm 0.2	2.5 \uparrow
<i>17αOHProg/Prog</i>	2.2 \pm 0.1	1.5 \pm 0.1	1.5 \downarrow
17, 20 Lyase			
<i>DHEA/17αOHPreg</i>	0.4 \pm 0.1	0.5 \pm 0.01	1.3 \uparrow
<i>A'dione/17αOHProg</i>	0.6 \pm 0.01	1.1 \pm 0.01	1.8 \uparrow
3βHSD2			
<i>Prog/Preg</i>	3.8 \pm 0.6	1.5 \pm 0.2	2.5 \downarrow
<i>17αOHProg/17αOHPreg</i>	4.8 \pm 0.7	0.6 \pm 0.01	8.0 \downarrow
<i>A'dione/DHEA</i>	8.0 \pm 1.9	1.2 \pm 0.01	6.7 \downarrow

Adrenal Enzyme <i>Product/Precursor</i>	Cortisol Treatment		Fold change
	-	+	
3βHSD2			
<i>A'dione/DHEA</i>	2.2 \pm 0.4	0.3 \pm 0.01	7.3 \downarrow

Supplemental Table 1. Effect of cortisol upon adrenal steroidogenic enzyme activities in human adrenal cells. For each enzyme, the product/precursor ratio, as well as the change in the ratio is shown in the absence and presence of cortisol treatment of NCI-H295R cells. Upper and lower panels display metabolites of [³H]-pregnenolone and [³H]-DHEA, respectively.

Supplemental Table 2

Adrenal Enzyme <i>Product/Precursor</i>	Cortisol Treatment (μM)				Fold Change (0 vs. 100 μM)
	0	5	50	100	
17α Hydroxylase <i>17αOHPreg/Preg</i>	2.7 \pm 0.2	2.8 \pm 0.1	2.9 \pm 0.04	3.0 \pm 0.1	1.1 \uparrow
17, 20 Lyase <i>DHEA/17αOHPreg</i>	2.7 \pm 0.2	2.3 \pm 0.1	2.2 \pm 0.04	2.0 \pm 0.1	1.4 \downarrow

Supplemental Table 2. Effect of cortisol upon adrenal steroidogenic enzyme activities in non-adrenal cells engineered to express *CYP17A1*. COS-7 cells were transfected with *CYP17A1* and treated with [^3H]-pregnenolone in the absence and presence of different concentrations of cortisol. The product/precursor ratio as well as the change in this ratio at cortisol concentrations of 0 vs. 100 μM , are shown for each enzyme.