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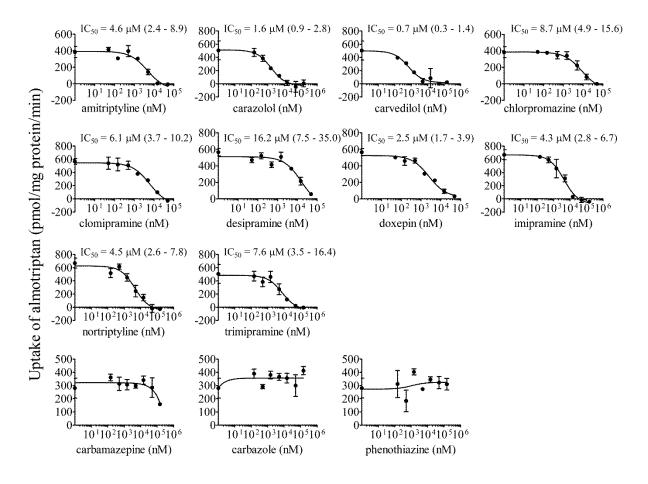
Effects of tricyclic compounds on the transport of anti-migraine triptans through human organic anion transporting polypeptide 1A2 (OATP1A2)

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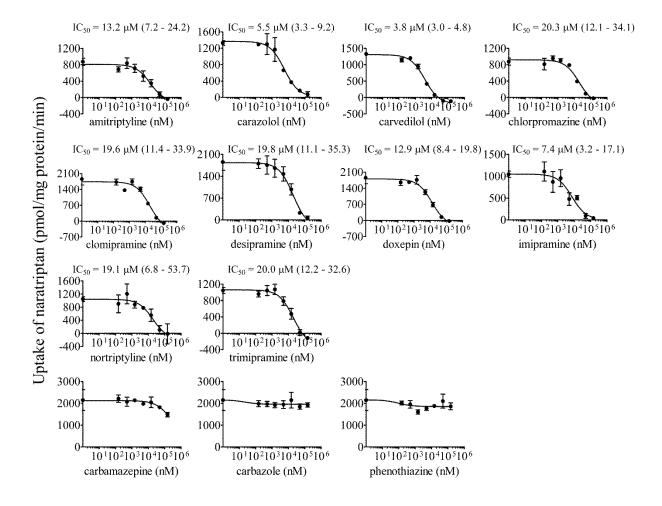
Supplemental Table 1: Validation of LC-MS/MS quantification methods of triptans

Compound	Concentration	Intra (n=3)			Inter (n=9)		
	(pg/mL)	$\begin{aligned} \text{Mean} &\pm \text{SD} \\ (\text{pg/mL}) \end{aligned}$	CV (%)	Nominal (%)	$\begin{array}{c} Mean \pm SD \\ (pg/mL) \end{array}$	CV (%)	Nominal (%)
	75.0	72.4 ± 3.7	5.1	-3.5	76.2 ± 9.9	13.0	1.5
Almotriptan	1250	1203 ± 28	2.3	-3.8	1189 ± 32	2.7	-4.9
	15000	15424 ± 382	2.5	2.8	15013 ± 470	3.1	0.1
Zolmitriptan	300	275 ± 2.9	1.1	-8.4	282.8 ± 11.3	4.0	-5.7
	5000	4633 ± 234	5.1	-7.3	4814 ± 225	4.7	-3.7
	20000	19322 ± 57	0.3	-3.4	20045 ± 790	3.9	0.2

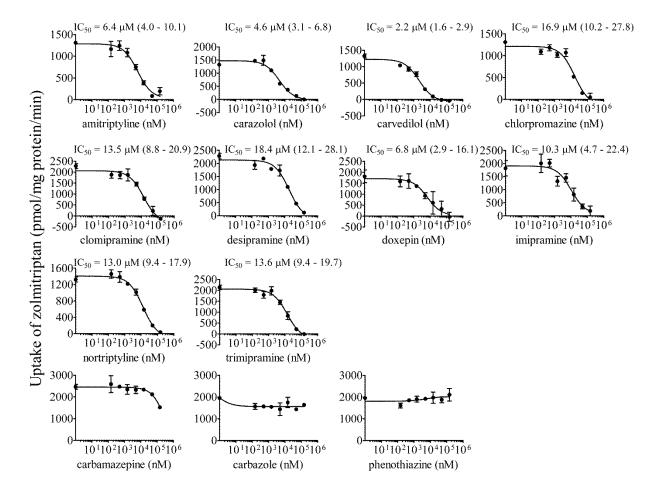
SD: standard deviation; CV: coefficient of variation



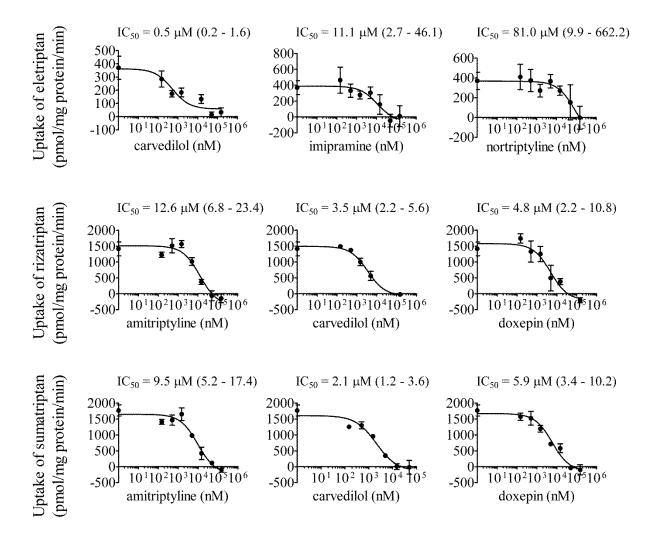
Supplemental Figure 1. Inhibition of OATP1A2-mediated transport of almotriptan by different tricyclic compounds. HEK293-OATP1A2 and HEK293-VC cells were coincubated with almotriptan (15 μ M) and different tricyclic compounds (150 nM – 150 μ M) for 2 min at 37°C. The quantity of intracellular almotriptan was normalized to protein content. To obtain the net transport, values measured in the VC cells were subtracted from the values measured in OATP1A2-expressed cells. IC₅₀ values were calculated by fitting the data to the log(inhibitor) vs. response equation in GraphPad Prism. Each point represents the mean \pm S.D. of triplicate from a single experiment. The values in parentheses represent the 95% confidence interval.



Supplemental Figure 2. Inhibition of OATP1A2-mediated transport of naratriptan by different tricyclic compounds. HEK293-OATP1A2 and HEK293-VC cells were coincubated with naratriptan (60 μ M) and different tricyclic compounds (150 nM – 150 μ M) for 2 min at 37°C. The quantity of intracellular naratriptan was normalized to protein content. To obtain the net transport, values measured in the VC cells were subtracted from the values measured in OATP1A2-expressed cells. IC₅₀ values were calculated by fitting the data to the log(inhibitor) vs. response equation in GraphPad Prism. Each point represents the mean \pm S.D. of triplicate from a single experiment. The values in parentheses represent the 95% confidence interval.



Supplemental Figure 3. Inhibition of OATP1A2-mediated transport of zolmitriptan by different tricyclic compounds. HEK293-OATP1A2 and HEK293-VC cells were coincubated with zolmitriptan (65 μ M) and different tricyclic compounds (150 nM – 150 μ M) for 2 min at 37°C. The quantity of intracellular zolmitriptan was normalized to protein content. To obtain the net transport, values measured in the VC cells were subtracted from the values measured in OATP1A2-expressed cells. IC₅₀ values were calculated by fitting the data to the log(inhibitor) vs. response equation in GraphPad Prism. Each point represents the mean \pm S.D. of triplicate from a single experiment. The values in parentheses represent the 95% confidence interval.



Supplemental Figure 4. Inhibition of OATP1A2-mediated transport of eletriptan, rizatriptan and sumatriptan by different tricyclic compounds. HEK293-OATP1A2 and HEK293-VC cells were coincubated with eletriptan (3 μM), rizatriptan (130 μM) or sumatriptan (300 μM) and different tricyclic compounds (150 nM – 150 μM). The incubation time for eletriptan was 1 min; whereas, rizatriptan and sumatriptan were incubated for 2 min at 37°C. The quantity of intracellular triptan was normalized to protein content. To obtain the net transport, values measured in the VC cells were subtracted from the values measured in OATP1A2-expressed cells. IC₅₀ values were calculated by fitting the data to the log(inhibitor) vs. response

equation in GraphPad Prism. Each point represents the mean \pm S.D. of triplicate from a single experiment. The values in parentheses represent the 95% confidence interval.