

Audiogram of the spiny mouse (*Acomys cahirinus*)

Data from: Heffner, R.S., Koay, G., and Heffner, H.E. (2001) Audiograms of five species of rodents: Implications for the evolution of hearing and the encoding of pitch. *Hearing Research*, 157, 138-152.

Absolute thresholds (in dB re 20 $\mu\text{N/m}^2$) for four spiny mice (designated A through D)

Frequency (in kHz)	Individual Thresholds (in dB)				Average
	A	B	C	D	
1	83	79	84.5	79	81.4
2	66	56	67	67	64
4	44	41	56	39	45
8	16	8.5	24	8	14.1
16	16	8.5	23	25	18.1
32	41	23	31	31	31.5
45	—	27	—	30	28.5
50	—	—	—	20	—
56	—	—	—	29	—
64	68	36	40	35	44.8
80	83	73	>82	71	78

Lowest and highest frequencies audible at sound pressure levels (SPL) ranging from 30 to 70 dB SPL

SPL (in dB)	Lowest audible frequency (in kHz)	Highest audible frequency (in kHz)
70	1.55	75.5
60	2.3	70.5
50	3.33	66
40	4.5	57
30	5.6	45

Additional Parameters:

Body weight = 55 g

Functional interaural distance = 64 μs

(Time required for sound to travel around the head from one auditory meatus to the other.)

Comments: Threshold values taken from original data.