

Table 1. Geometric characteristics and approximate spine densities for the 7 reconstructed dendritic segments

Series no.	Dendrites				Spines		
	Length (μm)	Diameter (μm)	Volume (μm^3)	Surface (μm^2)	No. origins	No. complete	No. origins/ μm
15	5.9	0.56 ± 0.10	2.00	14.19	18	14	3.1
16	9.7	0.47 ± 0.09	2.86	19.39	20	18	2.1
17	7.4	0.71 ± 0.09	2.32	11.90	8	6	1.1
18	8.5	0.65 ± 0.09	2.81	15.98	26	21	3.1
21	10.7	0.59 ± 0.07	3.09	18.32	19	14	1.8
22	11.2	0.41 ± 0.04	2.18	16.55	15	10	1.3
24 ^a	12.4	0.51 ± 0.12	4.52	26.25	24	20	1.9
Summary	69.4*	0.32–0.85 [^]	2.82**	17.51**	130*	103*	2.0**

Totals (*), ranges ([^]) and averages (**) in the Summary are across all 7 series.

^a The dendrite of series 24 branched within the series. This analysis includes the main shaft and the length of one branch of this dendrite. Two complete spines were on the second dendritic branch to give a total of 20 complete spines for this series. The second branch was near the edge of the series, and hence portions were incomplete; thus, its volume and surface area could not be accurately computed.