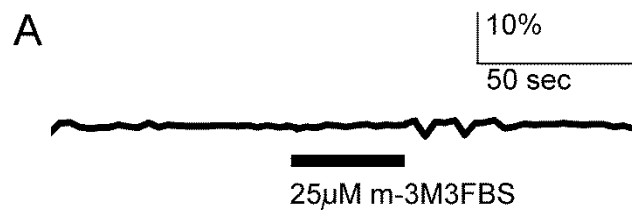


**Supplementary figure1** A representative record from a mouse olfactory sensory neuron showing increases in intracellular Ca<sup>2+</sup> levels in the soma (red trace) and dendritic knob (blue trace) in response to bath application of high K<sup>+</sup> (40 mM) saline, the PLC activator m-3M3FBS (25 μM), and adenylyl cyclase activator forskolin (3 μM). Black bars on the top of each response indicate stimulus time.



**B**

m-3M3FBS	Background change (%)
15 μM	0.10±0.04, n=11
25 μM	0.17±0.09, n=18

**Supplementary figure2 A:** A representative record from background region of a fluorescence image showing <0.5% changes in the fluorescence intensity during m-3M3FBS (25 μM) application (black bar). **B:** Mean peak values of fluorescence level changes in solution (cell-free background regions) during application of m-3M3FBS (15 and 25 μM).