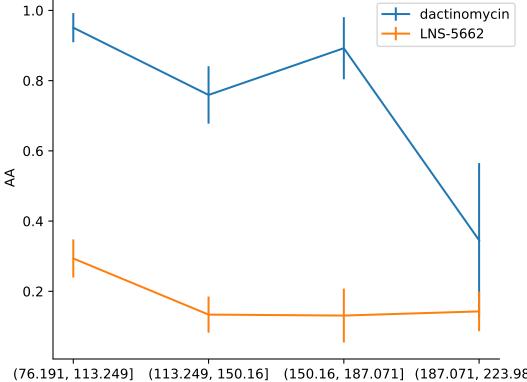NEURONAL SIGNALING