

LSD

The screenshot shows the EssayPro website homepage. At the top left is the EssayPro logo and navigation links: "How To Order", "Reviews", "About Us", and "Write My Essay". At the top right are links for "DBA: EPRO", "Log In", and "Sign Up". The main banner features a student sleeping at a desk with the text: "WRITING SERVICE AT YOUR CONVENIENCE", "You - Send us your homework", "We - Do it all for you", and "Grab your original paper for just \$10 per page with a free plagiarism report included". A "Write My Essay!" button is present. A "Calculate the price" calculator is overlaid on the right, showing options for "Writing", "Rewriting", and "Editing", with "Writing" selected. It also shows "Essay (any type)", "College", "2 weeks", "1 page / 275 words", "Double spaces" selected, and a price of "\$11.4" with a "Write My Paper" button. Below the banner, it says "NO MORE SLEEPLESS NIGHTS... 100% PLAGIARISM-FREE ESSAYS. ANY TOPIC OR DIFFICULTY CAN BE HANDLED!". At the bottom, there are three review sections: "EssayPro Reviews" with a 4.9 rating, "ResellerRatings" with a 4.9 rating, and "Sitejabber" with a 4.8 rating.

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Lysergic Acid Diethyl amide (LSD) has been implicated in a variety of studies to determine its potential for influence on certain neural activities. To date, little that can be certified as concrete fact has been found, though a number of theories with considerable support exist. Although [dopamine](#), epinephrine, and norepinephrine may be implicated in some LSD studies, serotonin seems to be the main focus of scientific inquiry with respect to LSD. Leicht (1996), postulates four theories concerning serotonin (5-HT) pre- and post-

synaptic transmitter sites and the potential for LSD to affect these sites, in particular. All of these theories point to the synaptic neuronal dendrites and terminal buttons as the main suspects with [regard](#) to LSD and its particular target area on the neurons themselves. After considerable dialogue which analyses studies by Aghajanian and colleagues, Leicht came to the conclusion that the evidence points toward certain types of activities on particular pre- and post-synaptic serotonergic neurons. The theories are as follows:

- 1: LSD Pre-synaptically inhibits 5-HT neurons.
- 2: LSD Post-synaptically antagonizes 5-HT₂ receptors.
- 3: LSD Post-synaptically partially agonizes 5-HT receptors.
- 4: LSD Post-synaptically agonizes 5-HT receptors.

Neural clusters in the Raphe Nuclei, which spread out from there, mainly into the frontal and prefrontal cortices have been identified as serotonergic. They are also auto-reactive, and LSD appears to inhibit the spontaneous [firing](#) of the neurons at that site, when the drug is systemically administered. 5-HT₂ receptors have been identified as pH dependent, while LSD molecules have been identified as pH independent. 5-HT₂ receptors are connected to a second messenger system (phosphatidylinositol, or PI). PI turnover has been found to be affected by 5-HT₂ in an antagonistic fashion, but is stimulated by 5-HT. LSD, in micrometric doses, can inhibit 1000 times that amount of 5-HT, which supports theory #2, as well as supporting, partially, theory #3;

when LSD is administered in a variety of doses, it apparently acts as a partial agonist. Though LSD and 5-HT are highly compatible, 5-HT is more effective at the serotonin receptor site, but LSD can compete with it at the 5-HT₂ site. The conclusion is, "...since 5-HT is a more potent agonist than LSD, the effects of LSD would appear antagonistic." Finally, for theory #4, Leicht cites Dr. Glennon's explanation of LSD's relationship with post-synaptic 5-HT receptors.

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