Selective Serotonin Reuptake Inhibitors The selective serotonin reuptake inhibitors (SSRIs) are a group of antidepressant drugs that specifically inhibit serotonin reuptake, having 300– to 3000–fold greater selectivity for the serotonin transporter, as compared to the norepinephrine transporter. Moreover, the SSRIs have little blocking activity at muscarinic, ?–adrenergic, and histaminic H1 receptors.