**Product Data Sheet**

**Product Name:** Fluoxetine  
**CAS No.:** 54910-89-3  
**Cat. No.:** HY-B0102  
**MWt:** 309.33  
**Formula:** C17H18F3NO  
**Purity :** >98%  

**Mechanisms:**  
Pathways: Neuronal Signaling; Target: SSRIs

**Biological Activity:**
Fluoxetine (LY110140) is an antidepressant of the selective serotonin reuptake inhibitor (SSRI) class. Target: SSRIs  
Fluoxetine delays the reuptake of serotonin, resulting in serotonin persisting longer when it is released. Fluoxetine may also produce some of its effects via its weak 5-HT2C receptor antagonist effects. Fluoxetine displayed relatively high affinity for the 5-HT2C receptor in the choroid plexus, with a Ki value for inhibition of [3H]mesulergine binding of 55.4 nM. [3H]Ketanserin (5-HT2A) binding assays revealed that the SSRIs fluoxetine, norfluoxetine and citalopram show 10- to 23-fold selectivity for the 5-HT2C receptor in vitro, whereas the TCA imipramine does not. In addition, fluoxetine has been found to act as an agonist of the α1-receptor, with a potency great...

**References:**

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