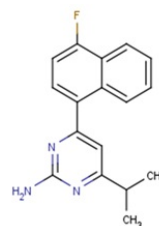


**Product Name** : RS-127445  
**Synonyms** : RS-127445; RS127445; MT-500  
**Cat No.** : M17415  
**CAS Number** : 199864-87-4  
**Molecular Formula** : C<sub>17</sub>H<sub>16</sub>FN<sub>3</sub>  
**Formula Weight** : 281.33  
**Chemical Name** : 2-Amino-4-(4-fluoronaphth-1-yl)-6-isopropylpyrimidine



**Description** : RS-127445 is a selective; high affinity; orally bioavailable serotonin 5-HT<sub>2B</sub> receptor antagonist. RS-127445 was found to have nanomolar affinity for the 5-HT<sub>2B</sub> receptor ( $pK_i = 9.5 \pm 0.1$ ) and 1,000 fold selectivity for this receptor as compared to numerous other receptor and ion channel binding sites. RS-127445 potently antagonized 5-HT-evoked formation of inositol phosphates ( $pK(B) = 9.5 \pm 0.1$ ) and 5-HT-evoked increases in intracellular calcium ( $pIC_{50} = 10.4 \pm 0.1$ ). RS-127445 also blocked 5-HT-evoked contraction of rat isolated stomach fundus ( $pA_2 = 9.5 \pm 1.1$ ) and (+/-)-alpha-methyl-5-HT-mediated relaxation of the rat jugular vein ( $pA_2 = 9.9 \pm 0.3$ ).

**Pathway** : Others  
**Target** : Other Targets  
**Receptor** : 5-HT<sub>2B</sub>; 5-HT<sub>2B</sub>  
**Solubility** : ———  
**SMILES** : CC(C)C1=NC(N)=NC(=C1)C1=C2C=CC=CC2=C(F)C=C1  
**Storage** : (-20°C)  
**Stability** : ≥ 2 years  
**Reference** :