

**Product Name** : NSC 368262

**Synonyms** : NSC368262

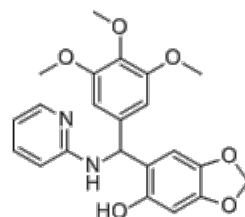
**Cat No.** : M13923

**CAS Number** : 299421-08-2

**Molecular Formula** : C<sub>22</sub>H<sub>22</sub>N<sub>2</sub>O<sub>6</sub>

**Formula Weight** : 410.43

**Chemical Name** : 6-[(pyridin-2-ylamino)-(3,4,5-trimethoxyphenyl)methyl]-1,3-benzodioxol-5-ol



**Description** : NSC 368262 is a selective STAT3 inhibitor that alkylates Cys468 in Stat3, blocks the DNA-binding activity of phosphorylated Stat3 homodimers with IC<sub>50</sub> of 10-50 uM, without inhibiting the DNA-binding of phosphorylated Stat1 homodimers; also disrupts the DNA-binding activity of Stat1/Stat3 heterodimers (IC<sub>50</sub>=50-100 uM), blocks accumulation of activated Stat3 in the nucleus in tumor cell lines, impressively inhibits tumor growth in mouse models.

**Pathway** : JAK/STAT Signaling

**Target** : STAT

**Receptor** : STAT

**Solubility** : —

**SMILES** : OC1=C(C(NC2=NC=CC=C2)C3=CC(OC)=C(OC)C(OC)=C3)C=C(OC4)C4=C1

**Storage** : (-20°C)

**Stability** : ≥ 2 years

**Reference** :

1. Buettner R, et al. ACS Chem Biol. 2011 May 20;6(5):432-43.