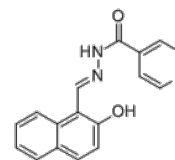


**Product Name** : AS8351  
**Cat. No.** : PC-62327  
**CAS No.** : 796-42-9  
**Molecular Formula** : C<sub>17</sub>H<sub>13</sub>N<sub>3</sub>O<sub>2</sub>  
**Molecular Weight** : 291.31  
**Target** : Histone Demethylase  
**Solubility** : 10 mM in DMSO



### Biological Activity

AS8351 (NS 51355) is a small molecule that induces reprogramming of human fetal lung fibroblasts into functional cardiomyocytes, in combination with CHIR 99021, A83-01, BIX 01294, SC1, Y-27632, OAC2, SU 16f and JNJ 10198409, inhibits lysine demethylase 5B (**KDM5B**).

AS-8351 competes with  $\alpha$ -ketoglutarate ( $\alpha$ -KG) for chelating iron/Fe(II) in certain epi-genetic enzymes, such as the JmjC-domain-containing histone demethylases (JmjC-KDMs) that require  $\alpha$ -KG and iron as co-factors.

### References

Cao N, et al. **Science**. 2016 Jun 3;352(6290):1216-20.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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