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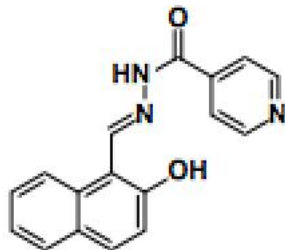
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KDM5B Inhibitor – AS8351

Chemical Name: 2-Hydroxy-1-naphthaldehyde isonicotinoylhydrazone



| | |
|-------------------|---|
| Molecular Weight: | 291.31 |
| Formula: | C ₁₇ H ₁₃ N ₃ O ₂ |
| Purity: | ≥98% |
| CAS#: | 796-42-9 |
| Solubility: | DMSO up to 100 mM |
| Storage | Powder: 4 °C 1 year DMSO: 4 °C 3 months -20 °C 1 year |

Biological Activity:

AS8351 is a potent iron chelator that has been found to inhibit of histone demethylase KDM5B (JARID1B) by competing with α-ketoglutarate. KDM5B a histone H3K4 demethylase involved in regulation of cell proliferation and stem cell self-renewal and differentiation. It can induce reprogramming of human fetal lung fibroblasts into functional cardiomyocytes, in combination with CHIR99021, A83-01, BIX01294, SC1, Y-27632, OAC2, SU16f and JNJ10198409.

How to Use:

In vitro: AS8351 was used at 1-10 μM in vitro and cellular assays.

In vivo: n/a

Reference:

1. Cao N, et al. Conversion of human fibroblasts into functional cardiomyocytes by small molecules. (2016) Science. 352(6290):1216-20.

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