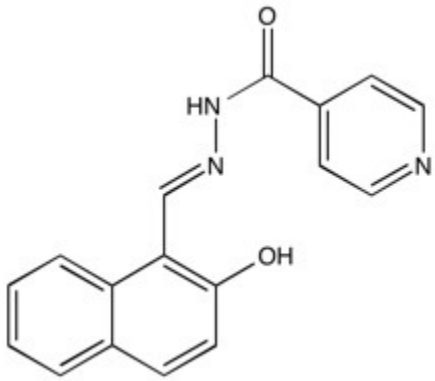
Tribioscience

AS-8351, KDM5B histone demethylase inhibitor

Catalog	Unit
TBI1597-5MG	5 mg
TBI1597-25MG	25 mg

Product Details

Formal Name: 2-Hydroxy-1-naphthylaldehyde isonicotinolyhydrazone
Alternate Names: NSC-51355
Molecular Formula: $C_{17}H_{13}N_3O_2$
Formula Weight: 291.30
CAS Number: 796-42-9
Purity: >98%
Formulation: powder
Solubility: Soluble in DMSO (up to 45 mg/ml), in DMF (up to 30 mg/ml) or in Ethanol (up to 10 mg/ml with warming)
Storage: -20°C
Stability: ≥ 2 years.



Applications

KDM5B histone demethylase inhibitor

Functions

AS-8351 has been used in a cocktail of nine small molecules used to efficiently induce cardiac reprogramming of human fibroblasts. It is believed that AS-8351 exerts its effects by modulating the activity of the JmjC domain-containing histone demethylases (JmjC-KDM). Thus each of the 22 genes in the JmjC-KDM family was abrogated using small hairpin RNAs which showed that only knocking down KDM5B (or using another KDM5B inhibitor such as PBIT) could phenocopy AS-8351 in generating cardiomyocytes. This strongly suggests that KDM5B is the target of AS-8351.

Application Procedures

First dissolved in DMSO (up to 45 mg/ml), in DMF (up to 30 mg/ml) or in Ethanol (up to 10 mg/ml with warming), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

For research use only.

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