

Product Data Sheet

Product Name: HIF-1/2 α -IN-2

Cat. No.: GC73339

Chemical Properties

Cas. No. 862974-22-9

Formula C₁₆H₁₁FN₄O₂S

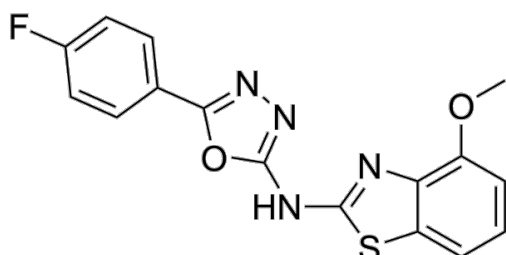
M.Wt 342.35

Solubility Storage 4°C, sealed storage, away from moisture and light

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

HIF-1/2 α -IN-2 is an inhibitor of HIF-1/2 α . HIF-1/2 α -IN-2 decreases HIF-1/2 α levels and induces iron starvation response by targeting Iron Sulfur Cluster Assembly 2 (ISCA2).

HIF-1/2 α -IN-2 (compound #1) (0-25 μ M; 24 h) decreases HIF-2 α translation instead of transcription, with a downward trend in VEGFA and POU5F1 (HIF-2 α target genes) transcription and insignificant effect on EPAS1 (HIF-2 α)[1]. HIF-1/2 α -IN-2 (0-100 μ M, 24 h) inhibits the production of luciferase driven by the HIF-2 α Iron-Responsive Element (IRE) luciferase reporter with an IC₅₀ value of 3.9 μ M,

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Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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to block IRE-dependent translation of HIF-2 α [1]. HIF-1/2 α -IN-2 (0, 10, 50 μ M) protects ISCA2 from Pronase-mediated (4 μ g/mL) degradation, and (1.5 μ M; 24 h) targets ISCA2 to induce iron and metals accumulation in normoxia 786-0 cells[1]. HIF-1/2 α -IN-2 (0-100 μ M; 24 h) results ISCA2 inhibition and promotes cell death via ferroptosis[1].

References:

[1]. Green YS, et al. ISCA2 inhibition decreases HIF and induces ferroptosis in clear cell renal carcinoma. *Oncogene*. 2022 Sep 12.

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