

KNK437

Catalog No: tcsc5659

Available Sizes

Size: 5mg

Size: 25mg

Size: 50mg

Size: 100mg

Size: 200mg

CAS No:

218924-25-5

Formula:

 $\mathsf{C}_{13}\mathsf{H}_{11}\mathsf{NO}_4$

Pathway:

Target:

HSP;HSP

Purity / Grade:

>98%

Solubility: DMSO : ≥ 34 mg/mL (138.65 mM)

Alternative Names:

Heat Shock Protein Inhibitor I

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Observed Molecular Weight:

245.23

Product Description

KNK437 is a **HSP** inhibitor, and inhibits the induction of HSP105, HSP70, and HSP40.

IC50 & Target: HSP^[1]

In Vitro: KNK437 inhibits the activation of several HSPs including HSP105, HSP70, and HSP40 in COLO 320DM (human colon carcinoma) cells. KNK437 (100 μ M) inhibits thermotolerance in COLO 320DM cells after the first heat treatment. KNK437 shows inhibitory effects on thermotolerance dose-dependently in COLO 320DM cells (0-200 μ M) and HeLa S3 cells (100, 200 μ M)^[1]. KNK437 (100 μ M) exhibits inhibitory activities against the methylation of H3-Lys4 before or after heat-treatment in HSC4 cells and KB cells, but does not affect that of H3 Lys9. KNK437 also suppresses the expression of HSP70^[3].

In Vivo: KNK437 is a weakly toxic agent. KNK437 (62.5-400 mg/kg) recovers bodyweight losses of tumor-free CD-1 (ICR) mice. KNK437 (200 mg/kg) alone shows no antitumor effects and does not increase the thermosensitivity of nontolerant tumors. KNK437 improves the antitumor effects of fractionated heat treatment at 44°C at 200 mg/kg in a synergistic manner. KNK437 (200 mg/kg, i.p.) suppresses the induction of thermotolerance when administrated 6 h before the initial heating^[2].



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