

Product Data Sheet

Product Name: (E)-FOBISIN101

Cat. No.: GC81754

Chemical Properties

Cas. No. 1370281-06-3

Formula $C_{15}H_{11}N_3Na_3O_8P$

M.Wt 461.21

Solubility

Storage Store at 4°C, sealed storage, away from moisture

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

(E)-FOBISIN101 is a 14-3-3 protein-protein interaction (14-3-3 protein-protein interaction) inhibitor, with IC₅₀ values of 9.3 and 16.4 μM for disrupting the binding of 14-3-3ζ or 14-3-3γ to PRAS40, respectively. (E)-FOBISIN101 inhibits the binding of 14-3-3 to Raf-1 and proline-rich AKT substrate, and neutralizes the ability of 14-3-3 to activate exotoxin S ADP-ribosyltransferase. (E)-FOBISIN101 is applicable to 14-3-3-mediated cancer research [1].

In Vitro, FOBISIN101 (5 mM; 3 days) forms a covalent adduct with Lys120 in purified 14-3-3ζ after X-

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ray radiation, occupying the peptide-binding groove and inactivating the protein^[1].

References:

[1]. Zhao J, et al. Discovery and structural characterization of a small molecule 14-3-3 protein-protein interaction inhibitor. Proceedings of the National Academy of Sciences. 2011 Sep 27;108(39):16212-6.

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