

Product Data Sheet

Product Name: G194-0712

Cat. No.: GC79053

Chemical Properties

Cas. No. 1029737-28-7

Formula $C_{20}H_{20}ClN_3O$ M.Wt 353.85

Solubility DMSO: 10 mg/mL (28.26 mM); ultrasonic and warming and heat to 60°C) Storage Store at -20°C

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

G194-0712 is a selective histone deacetylase 5 (HDAC5) activator with an EC₅₀ of 7.96 μM and a K_d of 2.53 μM. G194-0712 restores ACTN4-K417 deacetylation and nuclear import, and increases CSTA expression. G194-0712 accelerates wound closure in chronic wound models, reducing wound area and epithelial gap. G194-0712 can be used for the research of chronic skin wounds, such as diabetic wounds, ischemic wounds, radiation injury wounds [1].

Caution: Product has not been fully validated for medical applications. For research use only.

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In Vivo, G194-0712 (25 μ M; topical application) accelerates diabetic wound healing in C57BLKS/J-db/db mice, ischemic wound healing and irradiated wound healing in C57BL/6J mice by reinstating ACTN4-K417 deacetylation, nuclear import, and CSTA expression, leading to reduced wound area and epithelial gap in and reduced wound area^[1].

In Vitro, G194-0712 shows EC50 values of 107.2, 100.4 and 111.5 μ M for HDAC4, HDAC7 and HDAC9^[1].

References:

[1]. Zhang Y, et al. HDAC5 deacetylates cytosolic ACTN4 during skin reepithelialization and represents a therapeutic target for chronic wound healing. Sci Transl Med. 2025;17(830):eads0594.

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