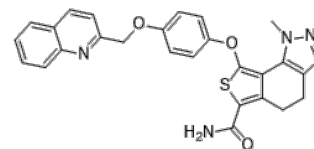


Product Name : TD-198946
Cat. No. : PC-23673
CAS No. : 364762-86-7
Molecular Formula : C₂₇H₂₂N₄O₃S
Molecular Weight : 482.56
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

TD-198946 is a small molecule disease-modifying osteoarthritis compound, effectively repairs cartilage by promoting chondrogenic differentiation and halt osteoarthritis (OA) progression, exerts its effect through the regulation of Runx1 expression.

TD-198946 strongly induced chondrogenic differentiation without promoting hypertrophy in cell and metatarsal organ cultures.

TD-198946 prevented and repaired degeneration of the articular cartilage.

TD-198946 (>1 nM) dose-dependently enhanced glycosaminoglycan (GAG) production, particularly hyaluronan, whereas chondrocyte differentiation was not impacted.

When combined with transforming growth factor β 3 (TGF β 3), TD-198946 promoted chondrocyte differentiation and production of cartilaginous matrices at doses <1 nM as judged by SOX9, S100, and type 2 collagen upregulation.

References

Yano F, et al. Ann Rheum Dis. 2013 May;72(5):748-53.

Chijimatsu R, et al. J Tissue Eng Regen Med. 2019 Mar;13(3):446-458.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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