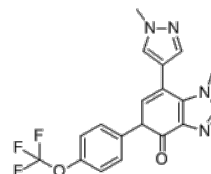


Product Name : AK3280
Cat. No. : PC-72631
CAS No. : 1799412-33-1
Molecular Formula : C₁₉H₁₅F₃N₄O₂
Molecular Weight : 388.35
Target : p38 MAPK
Solubility : 10 mM in DMSO



Biological Activity

AK3280 (GDC-3280, RG-6069) is an orally available, potential novel **anti-fibrotic** small molecule by inhibiting the **ASK1-p38 MAPK** signaling pathway.

AK3280 inhibits expression of fibrotic genes including Col1a1, Col1a2, Col3a1, and Acta2 induced by TGF-β, LPA, and serum in cell-based assays.

AK3280 exhibited anti-inflammatory and antifibrotic activity by inhibiting the ASK1-p38 MAPK signaling pathway in silicosis mouse model.

AK3280 attenuated the upregulation of fibrosis and TGF-β expression and improved cardiac function following Ang II stimulation.

AK3280 attenuated Ang II-induced cardiac fibrosis in mouse.

References

Cheung D, et al. *Pulm Pharmacol Ther*. 2021 Aug;69:102051.

Wang J, et al. *Biomed Chromatogr*. 2019 Apr;33(4):e4482.

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

E-mail: tech@probechem.com