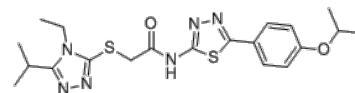


Product Name : RG100204
Cat. No. : PC-47092
CAS No. : 2140901-88-6
Molecular Formula : C₂₀H₂₆N₆O₂S₂
Molecular Weight : 446.588
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

RG100204 is a novel selective, small molecule inhibitor of the neutral solute channel **Aquaporin 9 (AQP9)**, inhibits AQP9 water permeability (IC₅₀=110 nM) and AQP9 glycerol permeability (IC₅₀=76 nM).

RG100204 displays no inhibition of water or glycerol permeability in AQP3 expressing CHO cells, and only minor inhibition of AQP7.

RG100204 inhibits AQP9 H₂O₂ permeability with similar potency and efficacy as for water and glycerol permeability.

RG100204 effectively attenuates CLP-induced systolic cardiac dysfunction in septic mice, attenuates CLP-induced hepatocellular injury and renal dysfunction, effectively inhibits the NF-κB signalling pathway in the kidney.

References

Mohammad S, et al. *Front Immunol.* 2022 Jun 14;13:900906.

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

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