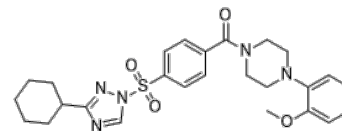


Product Name : RJG-2051
Cat. No. : PC-24479
CAS No. : 2851993-77-4
Molecular Formula : C₂₆H₃₁N₅O₄S
Molecular Weight : 509.63
Target : Aldose Reductase
Solubility : 10 mM in DMSO



CAS: 2851993-77-4

Biological Activity

RJG-2051 is a potent, selective and covalent aldo-keto reductase family 1 member C3 (**AKR1C3**) inhibitor with IC₅₀ of 13 nM, shows clear selectivity against AKR1C1 (2350-fold), AKR1C2 (1790-fold), and AKR1C4 (429-fold).

RJG-2051 exhibits proteome-wide selectivity, shows negligible cross-reactivity with AKRs or other proteins across 1800+ tyrosine and lysine sites quantified by chemical proteomics.

RJG-2051 engages a noncatalytic tyrosine site (Y24).

RJG-2051 has IC₅₀ of 27 nM in Coumestrol reduction assays.

References

Grams RJ, et al. *J Med Chem*. 2025 Apr 25. doi: 10.1021/acs.jmedchem.5c00050.

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

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