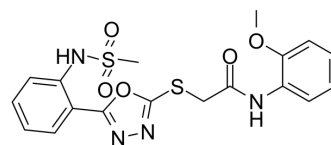


ALR1/2-IN-1

Cat. No.:	HY-147977
CAS No.:	2419233-57-9
Molecular Formula:	C ₁₈ H ₁₈ N ₄ O ₅ S ₂
Molecular Weight:	434.49
Target:	Aldose Reductase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	ALR1/2-IN-1 (Compound 6e) is an aldehyde reductase (ALR1) and aldose reductase (ALR2) inhibitor with IC ₅₀ values of 3.26 μM and 3.06 μM against ALR1 and ALR2, respectively. ALR1/2-IN-1 shows anticancer activity ^[1] .
IC ₅₀ & Target	IC ₅₀ : 3.06 μM (ALR2), 3.26 μM (ALR1) ^[1]
In Vitro	ALR1/2-IN-1 (Compound 6e) (100 μM) shows cytotoxic potential with 32.9 ± 3.26% inhibition against cervical carcinoma cells HeLa ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Javid N, et al. Exploiting oxadiazole-sulfonamide hybrids as new structural leads to combat diabetic complications via aldose reductase inhibition. *Bioorg Chem.* 2020 Jun;99:103852.

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

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