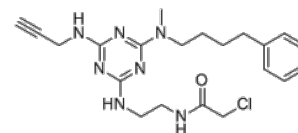

Product Name	: KSC-34
Cat. No.	: PC-63459
CAS No.	: 2226201-97-2
Molecular Formula	: C ₂₁ H ₂₈ ClN ₇ O
Molecular Weight	: 429.953
Target	: Protein Disulfide Isomerase (PDI)
Solubility	: 10 mM in DMSO



Biological Activity

KSC-34 (PDIA1 inhibitor KSC-34) is a potent, selective **protein disulfide isomerase A1 (PDIA1)** inhibitor, 30-fold selectivity for the A-site over the A' site.

KSC-34 displays time-dependent inhibition of PDIA1 reductase activity in vitro with a k_{inact}/K_I of $9.66 \times 10^3 \text{ M}^{-1} \text{ s}^{-1}$ and is selective for PDIA1 over other members of the PDI family, and other cellular cysteine-containing proteins.

KSC-34 significantly decreases the rate of secretion of a destabilized, amyloidogenic antibody light chain, thereby minimizing pathogenic amyloidogenic extracellular proteins in treated cells.

References

Cole KS, et al. *Biochemistry*. 2018 Apr 3;57(13):2035-2043.

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

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