

Product Data Sheet

Product Name: KSC-34
Cat. No.: GC61579

Chemical Properties

Cas. No. 2226201-97-2

SMILES O=C(NCCNC1=NC(N(C)CCCCC2=CC=CC=C2)=NC(NCC#C)=N1)CCl

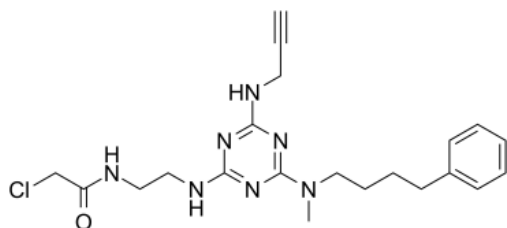
Formula $C_{21}H_{28}ClN_7O$ M.Wt 429.95

Solubility DMSO: 100 mg/mL (232.59 mM) Storage 4°C, stored under nitrogen

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

KSC-34, a covalent modifier of protein disulfide isomerase A1 (PDIA1), is also a selective and potent a-site inhibitor of PDIA1 with an IC₅₀ of 3.5 μM. KSC-34 displays a 30-fold selectivity for a domain over a' domain and displays high selectivity for PDIA1 in complex proteomes with minimal engagement of other members of the PDI family[1].

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

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KSC-34 is selective for PDIA1 over other members of the PDI family, and other cellular cysteine-containing proteins. KSC-34 contains a (4-phenylbutyl)methylamine diversity element for optimized binding to the active site of the a domain of PDIA1 with a chloroacetamide electrophile for covalent modification of C53 on PDIA1[1].

[1]. Cole KS, et al. Characterization of an A-Site Selective Protein Disulfide Isomerase A1 Inhibitor. *Biochemistry*. 2018;57(13):2035-2043.

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