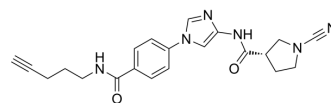


GK13S

Cat. No.:	HY-153627	
Molecular Formula:	C ₂₁ H ₂₂ N ₆ O ₂	
Molecular Weight:	390.44	
Target:	Deubiquitinase	
Pathway:	Cell Cycle/DNA Damage	
Storage:	Powder	-20°C 3 years
	In solvent	-80°C 6 months
		-20°C 1 month



BIOLOGICAL ACTIVITY

Description	G13KS is a deubiquitinase UCHL1 ligand and inhibitor. G13KS inhibits recombinant and cellular UCHL1. G13KS reduces levels of monoubiquitin in human glioblastoma cells ^[1] . GK13S is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAC) with molecules containing Azide groups.									
IC₅₀ & Target	UCHL1 50 nM (IC ₅₀)									
In Vitro	<p>GK13S (0-1 μM, 1 h) inhibits recombinant UCHL1 with an IC₅₀ of 50 nM^[1].</p> <p>GK13S (1-10 μM, 24 h) inhibits cellular UCHL1 in HEK293 cells^[1].</p> <p>GK13S (5 μM, 72 h) does not impair HEK293 cell growth^[1].</p> <p>GK13S (5 μM, 48 h) reduces ubiquitin levels in U-87 MG cells^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Western Blot Analysis^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>HEK293 cell</td> </tr> <tr> <td>Concentration:</td> <td>1, 5, 10 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>24 h</td> </tr> <tr> <td>Result:</td> <td>Nearly completely inhibits UCHL1 at 1 μM.</td> </tr> </table>		Cell Line:	HEK293 cell	Concentration:	1, 5, 10 μM	Incubation Time:	24 h	Result:	Nearly completely inhibits UCHL1 at 1 μM.
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Concentration:	1, 5, 10 μM									
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Result:	Nearly completely inhibits UCHL1 at 1 μM.									

REFERENCES

[1]. Grethe C, et al. Structural basis for specific inhibition of the deubiquitinase UCHL1. Nat Commun. 2022 Oct 10;13(1):5950.

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

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