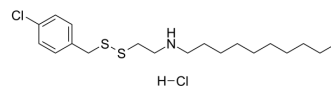


NSC624206

Cat. No.:	HY-103436
CAS No.:	13116-77-3
Molecular Formula:	C ₁₉ H ₃₃ Cl ₂ NS ₂
Molecular Weight:	410.51
Target:	E1/E2/E3 Enzyme
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	NSC624206 is an inhibitor of ubiquitin E1 (UBA1), with an IC ₅₀ of ~9 μM. NSC624206 specifically blocks ubiquitin-thioester formation (IC ₅₀ =13 μM) but has no effect on ubiquitin adenylation ^[1] .									
IC₅₀ & Target	IC ₅₀ : ~9 μM (ubiquitin E1) ^[1]									
In Vitro	<p>NSC624206 prevents in vitro ubiquitination of the cell cycle regulator p27 as well as inducing an accumulation of p27 in the HepG2 liver cancer cell line^[1].</p> <p>NSC624206 clearly reduces ubiquitin-E1 thioesters in a concentration-dependent manner with an IC₅₀ of 13 μM^[1].</p> <p>NSC624206 (10 nM-10 μM; 24 hours) induces accumulation of p27 in 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>Kip16 cells</td> </tr> <tr> <td>Concentration:</td> <td>10 nM-10 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>24 hours</td> </tr> <tr> <td>Result:</td> <td>Induced accumulation of p27.</td> </tr> </table>		Cell Line:	Kip16 cells	Concentration:	10 nM-10 μM	Incubation Time:	24 hours	Result:	Induced accumulation of p27.
Cell Line:	Kip16 cells									
Concentration:	10 nM-10 μM									
Incubation Time:	24 hours									
Result:	Induced accumulation of p27.									

REFERENCES

[1]. Dana Ungermannova, et al. Identification and Mechanistic Studies of a Novel Ubiquitin E1 Inhibitor. J Biomol Screen . 2012 Apr;17(4):421-34.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA