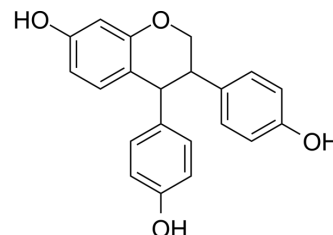


## ME-143

Cat. No.:	HY-13675
CAS No.:	852536-39-1
Molecular Formula:	C <sub>21</sub> H <sub>18</sub> O <sub>4</sub>
Molecular Weight:	334.37
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	ME-143 is a second-generation tumor-specific inhibitor of NADH oxidase. ME-143 inhibits the WNT/ $\beta$ -catenin pathway in colorectal cancer cells. ME-143 has broadly active against cancers in vitro and in vivo <sup>[1]</sup> .								
<b>IC<sub>50</sub> &amp; Target</b>	NADH oxidase <sup>[1]</sup>								
<b>In Vitro</b>	<p>ME-143 (0-100 <math>\mu</math>M; 48 hours) reduces proliferation of DLD1 cell line by approximately 40% at a concentration of 3.125 <math>\mu</math>M, and is more potent than Genistein<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Proliferation Assay<sup>[1]</sup></p> <table border="1"> <tr> <td>Cell Line:</td> <td>RKO cell; DLD1 cell</td> </tr> <tr> <td>Concentration:</td> <td>0-100 <math>\mu</math>M</td> </tr> <tr> <td>Incubation Time:</td> <td>48 hours</td> </tr> <tr> <td>Result:</td> <td>Reduced proliferation of DLD1 cell line by approximately 40% at a concentration of 3.125 <math>\mu</math>M, and was more potent than Genistein.</td> </tr> </table>	Cell Line:	RKO cell; DLD1 cell	Concentration:	0-100 $\mu$ M	Incubation Time:	48 hours	Result:	Reduced proliferation of DLD1 cell line by approximately 40% at a concentration of 3.125 $\mu$ M, and was more potent than Genistein.
Cell Line:	RKO cell; DLD1 cell								
Concentration:	0-100 $\mu$ M								
Incubation Time:	48 hours								
Result:	Reduced proliferation of DLD1 cell line by approximately 40% at a concentration of 3.125 $\mu$ M, and was more potent than Genistein.								
<b>In Vivo</b>	<p>NADH<math>\square\square\square\square\square</math></p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>								

### REFERENCES

[1]. Pintova S, et al. ME-143 Is Superior to Genistein in Suppression of WNT Signaling in Colon Cancer Cells. *Anticancer Res.* 2017;37(4):1647-1653.

**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