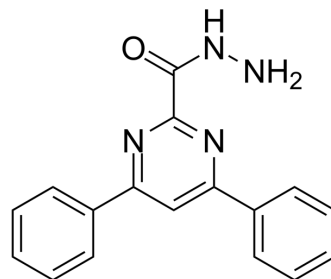


## OX01914

<b>Cat. No.:</b>	HY-150078
<b>CAS No.:</b>	49676-35-9
<b>Molecular Formula:</b>	C <sub>17</sub> H <sub>14</sub> N <sub>4</sub> O
<b>Molecular Weight:</b>	290.32
<b>Target:</b>	Others
<b>Pathway:</b>	Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	OX01914 is a water-soluble and permeable utrophin modulator (upregulates utrophin protein levels), with an EC <sub>50</sub> of 20.5 μM. OX01914 can be used in study of Duchenne muscular dystrophy (DMD) <sup>[1]</sup> .																
<b>In Vitro</b>	<p>OX01914 (0.1, 10, 40, 50 μM; 24 h) upregulates utrophin mRNA in LUmdx and (30 μM; 24 h) H2K mdx myoblasts<sup>[1]</sup>.            OX01914 (1, 3, 30; 24 h) upregulates utrophin protein levels in human DMD muscle cells<sup>[1]</sup>.            MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Western Blot Analysis<sup>[1]</sup></p> <table border="1"> <tr> <td>Cell Line:</td> <td>LUmdx and H2K mdx myoblasts</td> </tr> <tr> <td>Concentration:</td> <td>0.1, 10, 40, 50 μM (for LUmdx myoblasts) ; 30 μM (for H2K mdx myoblasts).</td> </tr> <tr> <td>Incubation Time:</td> <td>24 h</td> </tr> <tr> <td>Result:</td> <td>Upregulated utrophin mRNA both in LUmdx and H2K mdx myoblasts.</td> </tr> </table> <p>Western Blot Analysis<sup>[1]</sup></p> <table border="1"> <tr> <td>Cell Line:</td> <td>Human DMD cells</td> </tr> <tr> <td>Concentration:</td> <td>1, 3, 30 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>24 h</td> </tr> <tr> <td>Result:</td> <td>Increased utrophin protein levels by approximately 3-fold.</td> </tr> </table>	Cell Line:	LUmdx and H2K mdx myoblasts	Concentration:	0.1, 10, 40, 50 μM (for LUmdx myoblasts) ; 30 μM (for H2K mdx myoblasts).	Incubation Time:	24 h	Result:	Upregulated utrophin mRNA both in LUmdx and H2K mdx myoblasts.	Cell Line:	Human DMD cells	Concentration:	1, 3, 30 μM	Incubation Time:	24 h	Result:	Increased utrophin protein levels by approximately 3-fold.
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### REFERENCES

[1]. Vuorinen A, et al. Discovery and mechanism of action studies of 4,6-diphenylpyrimidine-2-carbohydrazides as utrophin modulators for the treatment of Duchenne muscular dystrophy. *Eur J Med Chem.* 2021 Aug 5;220:113431.

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

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