p300/CBP inhibitor – C646

Chemical Name: (Z)-4-(4-((5-(4,5-dimethyl-2-nitrophenyl)furan-2-yl)methylene)-3-methyl-5-oxo-4,5-dihydro-1H-pyrazol-1-yl)benzoic acid

<table>
<thead>
<tr>
<th>Molecular Weight:</th>
<th>445.42</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formula:</td>
<td>C24H19N3O6</td>
</tr>
<tr>
<td>Purity:</td>
<td>≥98%</td>
</tr>
<tr>
<td>CAS#:</td>
<td>328968-36-1</td>
</tr>
<tr>
<td>Solubility:</td>
<td>DMSO up to 30 mM</td>
</tr>
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| Storage           | Powder: 4 °C 1 year  
                              DMSO: 4 °C 3 months  
                              -20 °C 1 year |

Biological Activity:

C646 is a potent, selective and cell-permeable p300/CBP histone acetyltransferase (HAT) inhibitor with an IC50 ~400 nM. It competes with acetyl-CoA for the p300 Lys-CoA binding pocket selectively. It blocks the growth of human melanoma, leukemia, lung, and prostate cancer cells in vitro. C646 has also been used to study the role of p300-mediated gene regulation in neuroscience. The histone acetyltransferase (HAT) p300/CBP is a transcriptional coactivator implicated in many gene regulatory pathways and protein acetylation events. C646 is a useful chemical probe to study p300/CBP HAT functions.

How to Use:

In vitro: C646 was used at 10 µM final concentration in various in vitro assays.

In vivo: C646 was dosed to mice by Alzet pumps at 0.9 mg/kg per day for 14 days.

Reference:


Products are for research use only. Not for human use.