



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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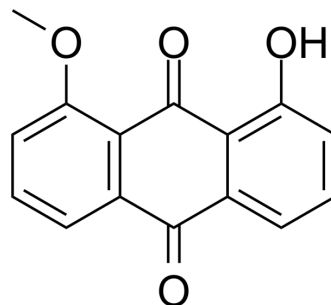
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## 6PGD-IN-1

Cat. No.:	HY-N7850
CAS No.:	5539-66-2
Molecular Formula:	C <sub>15</sub> H <sub>10</sub> O <sub>4</sub>
Molecular Weight:	254.24
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	6PGD-IN-1 (compound S3) is an inhibitor of 6-phosphogluconate dehydrogenase (6PGD). IC <sub>50</sub> and K <sub>d</sub> the value of 17.8μM and 17.1 μM respectively. 6PGD-IN-1 has antitumor activity <sup>[1]</sup> .								
<b>In Vitro</b>	6PGD-IN-1 (10-40 μM, 24-72 h) inhibits the cell viability of H1299 and K562 <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.								
<b>In Vivo</b>	6PGD-IN-1 (20 mg/kg/day intraperitoneally for 4 weeks) reduces tumor growth and volume in xenografted nude mice injected subcutaneously with H1299 cells <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.								
	<table border="1"> <tr> <td>Animal Model:</td> <td>H1299-xenograft mice<sup>[1]</sup></td> </tr> <tr> <td>Dosage:</td> <td>20 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>i.p.</td> </tr> <tr> <td>Result:</td> <td>Decreased 6PGD activity and reduced Ki-67 expression.</td> </tr> </table>	Animal Model:	H1299-xenograft mice <sup>[1]</sup>	Dosage:	20 mg/kg	Administration:	i.p.	Result:	Decreased 6PGD activity and reduced Ki-67 expression.
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Result:	Decreased 6PGD activity and reduced Ki-67 expression.								

### REFERENCES

[1]. Lin R, et al. 6-Phosphogluconate dehydrogenase links oxidative PPP, lipogenesis and tumour growth by inhibiting LKB1-AMPK signalling. Nat Cell Biol. 2015 Nov;17(11):1484-96.

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

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