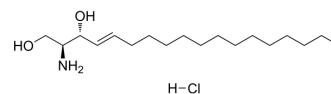


## D-erythro-Sphingosine hydrochloride

Cat. No.:	HY-W089922		
CAS No.:	2673-72-5		
Molecular Formula:	C <sub>18</sub> H <sub>38</sub> ClNO <sub>2</sub>		
Molecular Weight:	335.95		
Target:	TRP Channel		
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### BIOLOGICAL ACTIVITY

<b>Description</b>	D-erythro-Sphingosine (Erythrosphingosine) hydrochloride is a specific TRPM3 activator. D-erythro-Sphingosine also induces retinoblastoma protein dephosphorylation <sup>[1][2]</sup> .	
<b>IC<sub>50</sub> &amp; Target</b>	TRPM3	Retinoblastoma protein
<b>In Vitro</b>	<p>Extracellular application of D-erythro-Sphingosine (20 μM) induces an increase in [Ca<sup>2+</sup>]<sub>i</sub> in TRPM3-transfected HEK293 cells within 20 to 30 s after start of application, whereas nontransfected control cells (NT) shows only very small responses<sup>[1]</sup>. D-erythro-Sphingosine (10 μM) induces currents through TRPM3<sup>[1]</sup>.</p> <p>Induction of retinoblastoma protein dephosphorylation by D-erythro-Sphingosine (500 nM; 24 h) precede inhibition of growth and a specific arrest in the G0/G1 phase of the cell cycle<sup>[2]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>	

### CUSTOMER VALIDATION

- J Agric Food Chem. 2022 Aug 26.
- Mol Med. 2022 Sep 6;28(1):106.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

### REFERENCES

- [1]. Grimm C, et al. Activation of the melastatin-related cation channel TRPM3 by D-erythro-sphingosine [corrected]. Mol Pharmacol. 2005 Mar;67(3):798-805.
- [2]. Chao R, et al. Retinoblastoma protein dephosphorylation induced by D-erythro-sphingosine. J Biol Chem. 1992 Nov 25;267(33):23459-62.

---

**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](mailto:tech@MedChemExpress.com)

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