

Hello Bio, Inc.  
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500  
F. 609-228-4994

customercare-usa@hellobio.com



## DATASHEET

(E)-Capsaicin

### Product overview

<b>Name</b>	(E)-Capsaicin
<b>Cat No</b>	HB1179
<b>Biological action</b>	Agonist
<b>Purity</b>	>95%
<b>Customer comments</b>	<i>Fast service with an important tool that works perfect. Capsaicin is an agonist of TRPV1 receptors. Capsaicin offered by Hello Bio has an amazing price not offered by other suppliers. I definitely recommend it. <b>Verified customer, University of Vigo</b></i>
<b>Description</b>	TRPV1 channel agonist

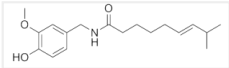
### Biological Data

<b>Biological description</b>	TRPV1 channel agonist (pEC <sub>50</sub> values are 7.10 and 7.97 for human and rat TRPV1 respectively). Carbonic anhydrase inhibitor (K <sub>i</sub> values are 696.15 and 208.37 μM for hCAI and hCAII respectively). Also CYP3A subfamily and P-gp inhibitor. Induces cell cycle arrest, apoptosis and inhibits proliferation. Displays apoptosis inducing,
-------------------------------	--

### Solubility & Handling

<b>Storage instructions</b>	Room temperature
<b>Solubility overview</b>	Soluble in DMSO (50mM) and in ethanol (50mM)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

<b>Chemical name</b>	(E)-N-[(4-Hydroxy-3-methoxyphenyl)methyl]-8-methyl-6-nonenamide
<b>Molecular Weight</b>	305.42
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>18</sub> H <sub>27</sub> NO <sub>3</sub>
<b>CAS Number</b>	404-86-4
<b>PubChem identifier</b>	1548943
<b>SMILES</b>	CC(C)/C=C/CCCC(=O)NCC1=CC(=C(C=C1)O)OC
<b>InChi</b>	InChI=1S/C18H27NO3/c1-14(2)8-6-4-5-7-9-18(21)19-13-15-10-11-16(20)17(12-15)22-3/h6,8,10-12,14,20H,4-5,7,9,13H2,1-3H3,(H,19,21)/b8-6+
<b>InChiKey</b>	YKPUWZUDDOIDPM-SOFGYWHQSA-N
<b>MDL number</b>	MFCD00017259

### References

#### Capsaicin: a potent inhibitor of carbonic anhydrase isoenzymes.

Arabaci B *et al* (2014) Molecules 19(7)

**PubMedID** [25014536](https://pubmed.ncbi.nlm.nih.gov/25014536/)

**Transient receptor potential type vanilloid 1 suppresses skin carcinogenesis.**

Bode AM *et al* (2009) *Cancer Res* 69(3)

**PubMedID** [19155296](#)

**Capsaicin: cellular targets, mechanisms of action, and selectivity for thin sensory neurons.**

Holzer P (1991) *Pharmacol Rev* 43(2)

**PubMedID** [1852779](#)

**Sensory neuron-specific actions of capsaicin: mechanisms and applications.**

Bevan S *et al* (1990) *Trends Pharmacol Sci* 11(8)

**PubMedID** [2203194](#)

---