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## DATASHEET

AMG 9810

### Product overview

<b>Name</b>	AMG 9810
<b>Cat No</b>	HB1188
<b>Biological action</b>	Antagonist
<b>Purity</b>	>98%
<b>Description</b>	Potent, selective, competitive TRPV1 channel antagonist

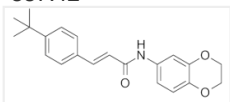
### Biological Data

<b>Biological description</b>	Potent, selective and competitive TRPV1 channel antagonist (IC <sub>50</sub> values are 24.5 and 85.6 nM for human and rat TRPV1 respectively). Competitively inhibits capsaicin binding to rat TRPV1. Displays antihyperalgesic effects.
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### Solubility & Handling

<b>Storage instructions</b>	+4 °C (desiccate)
<b>Solubility overview</b>	Soluble in DMSO (50mM) or ethanol (100mM)
<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>	(2E)-N-(2,3-Dihydro-1,4-benzodioxin-6-yl)-3-[4-(1,1-dimethylethyl)phenyl]-2-propenamide
<b>Molecular Weight</b>	337.42
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>21</sub> H <sub>23</sub> NO <sub>3</sub>
<b>CAS Number</b>	545395-94-6
<b>PubChem identifier</b>	680502
<b>SMILES</b>	CC(C)(C)C1=CC=C(C=C1)\C=C\C(=O)NC1=CC=C2OCCOC2=C1
<b>InChiKey</b>	GZTFUVZVLYUPRG-IZZDOVSWSA-N

### References

**AMG 9810 [(E)-3-(4-t-butylphenyl)-N-(2,3-dihydrobenzo[b][1,4] dioxin-6-yl)acrylamide], a novel vanilloid receptor 1 (TRPV1) antagonist with antihyperalgesic properties.**

Gavva NR *et al* (2005) J Pharmacol Exp Ther 313(1)

**PubMedID** [15615864](#)

**Increased acid responsiveness in vagal sensory neurons in a guinea pig model of eosinophilic esophagitis.**

Hu Y *et al* (2014) Am J Physiol Gastrointest Liver Physiol 307(2)

**PubMedID** [24875100](#)

**No requirement of TRPV1 in long-term potentiation or long-term depression in the anterior cingulate cortex.**

Liu MG *et al* (2014) Mol Brain 7

**PubMedID**

[24708859](#)

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