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DATASHEET

AMG 9810

Product overview

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

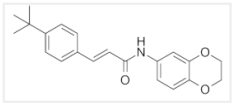
Biological Data

Biological description	Potent, selective and competitive TRPV1 channel antagonist (IC_{50} values are 24.5 and 85.6 nM for human and rat TRPV1 respectively). Competitively inhibits capsaicin binding to rat TRPV1. Displays antihyperalgesic effects.

Solubility & Handling

Solubility overview	Soluble in DMSO (50mM) or ethanol (100mM)
Storage instructions	+4°C (desiccate)
Storage of solutions	Prepare and use solutions on the same day if possible. Store solutions at -20°C for up to one month if storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.
Shipping Conditions	Stable for ambient temperature shipping. Follow storage instructions on receipt.
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	(2*E*)-*N*-(2,3-Dihydro-1,4-benzodioxin-6-yl)-3-[4-(1,1-dimethylethyl)phenyl]-2-propenamide
Molecular Weight	337.42
Chemical structure	
Molecular Formula	$C_{21}H_{23}NO_3$
CAS Number	545395-94-6
PubChem identifier	680502
SMILES	CC(C)(C)C1=CC=C(C=C1)\C=C\C(=O)NC1=CC=C2OCCOC2=C1
InChiKey	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