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DATASHEET

ICG 001

Product overview

Name	ICG 001
Cat No	HB0331
Biological action	Inhibitor
Purity	>98%
Description	Selective, competitive inhibitor of β -catenin/CBP interaction

Biological Data

Biological description	Selective and competitive inhibitor of β -catenin/ CREB-binding protein (CBP) interaction ($IC_{50} = 3.0 \mu M$). Exhibits little activity on β -catenin/p300. Also inhibits TGF- β 1 induced α -SMA induction. Displays cardioprotective and apoptosis inducing properties.
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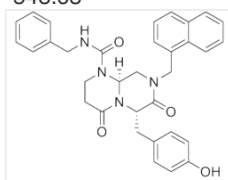
Solubility & Handling

Storage instructions	-20 °C
Solubility overview	Soluble in DMSO (100mM) or ethanol (50mM)
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	(6S,9aS)-Hexahydro-6-[(4-hydroxyphenyl)methyl]-8-(1-naphthalenylmethyl)-4,7-dioxo-N-(phenylmethyl)-2H-pyrazino[1,2-a]pyrimidine-1(6H)-carboxamide
Molecular Weight	548.63

Chemical structure



Molecular Formula	$C_{33}H_{32}N_4O_4$
CAS Number	780757-88-2
PubChem identifier	11238147
SMILES	<chem>O=C1CCN(C(NCC5=CC=CC=C5)=O)[C@]2([H])N1[C@@H](CC6=CC=C(O)C=C6)C(N(CC3=C(C=CC=C4)C4=CC=C3)C2)=O</chem>
InChiKey	HQWTUOLCGKIECB-XZWHSSHBSA-N

References

The small molecule Wnt signaling modulator ICG-001 improves contractile function in chronically infarcted rat myocardium.

Sasaki T *et al* (2013) PLoS One 8(9)

PubMedID

24069374

ICG-001, a novel small molecule regulator of TCF/beta-catenin transcription.

Eguchi M *et al* (2005) *Med Chem* 1(5)

PubMedID

16787331

A small molecule inhibitor of beta-catenin/CREB-binding protein transcription [corrected].

Emami KH *et al* (2004) *Proc Natl Acad Sci U S A* 101(34)

PubMedID

15314234

Interactions between β -catenin and transforming growth factor- β signaling pathways mediate epithelial-mesenchymal transition and are dependent on the transcriptional co-activator cAMP-response element-binding protein (CREB)-binding protein (CBP)

Zhou B *et al* (2012) *J Biol Chem* 287(10)

PubMedID

22241478
