Datasheet

Product overview

Name
ICG 001

Cat No
HB0331

Short description
Selective, competitive inhibitor of β-catenin/CBP interaction

Biological description
Selective and competitive inhibitor of β-catenin/CREB-binding protein (CBP) interaction (IC\textsubscript{50} = 3.0 µM). Exhibits little activity on β-catenin/p300. Also inhibits TGF-β1 induced α-SMA induction. Displays cardioprotective and apoptosis inducing properties.

Biological action
Inhibitor

Purity
>98%

Properties

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

![Chemical Structure Image]

Molecular Formula
C\textsubscript{33}H\textsubscript{32}N\textsubscript{4}O\textsubscript{4}

CAS Number
847591-62-2

PubChem identifier
11238147

SMILES
O=C1CCN(C(NCC5=CC=CC=C5)=O)[C@]2([H])N1[C@][@H][CC6=CC=CC(O)C=C6]C(N(CC3=C(C=CC=C4)C4=CC=C3)C2)=O

InChiKey
HQWTUOLCGKIECB-XZWHSSHBSA-N

Storing and Using Your Product

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.

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


PubMedID: 24069374

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


PubMedID: 16787331

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


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)


PubMedID: 22241478