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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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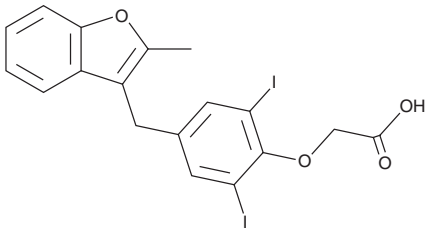
PRODUCT INFORMATION

KB-130015

Item No. 33461

CAS Registry No.:	147030-48-6
Formal Name:	2-[2,6-diiodo-4-[(2-methyl-3-benzofuranyl)methyl]phenoxy]-acetic acid
MF:	$C_{18}H_{14}I_2O_4$
FW:	548.1
Purity:	≥95%
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

KB-130015 is supplied as a crystalline solid. A stock solution may be made by dissolving the KB-130015 in the solvent of choice, which should be purged with an inert gas. KB-130015 is soluble in organic solvents such as ethanol and DMSO. The solubility of KB-130015 in these solvents is 10 mg/ml.

Description

KB-130015 is an antiarrhythmic agent and a derivative of amiodarone (Item No. 15213).[1] It inhibits potassium currents induced by acetylcholine or adenosine in isolated guinea pig atrial myocytes (IC_{50}s = 0.82 and 0.57 µM, respectively).[2] KB-130015 activates or inhibits the voltage-gated potassium channel human-ether-a-go-go (hERG), also known as K_V11.1, in HEK293 cells in a voltage-dependent manner.[3] It activates large-conductance calcium-activated potassium (K_{Ca}1.1/BK_{Ca}) channels in HEK293 cells expressing the K_{Ca}1.1 subunit Slo1 (EC_{50} = 20.2 µM).[4] KB-130015 (40 mg/kg) prolongs the duration of electrically stimulated action potentials in guinea pig papillary muscle *ex vivo*.[1] It is also an antagonist of human thyroid hormone receptor α (TRα) and TRβ (IC_{50}s = 2.2 and 4.1 µM, respectively, in reporter assays).

References

1. Carlsson, B., Singh, B.N., Temciuc, M., *et al.* Synthesis and preliminary characterization of a novel antiarrhythmic compound (KB130015) with an improved toxicity profile compared with amiodarone. *J. Med. Chem.* **45(3)**, 623-630 (2002).
2. Brandts, B., Borchard, R., Macianskiene, R., *et al.* Inhibition of G protein-coupled and ATP-sensitive potassium currents by 2-methyl-3-(3,5-diiodo-4-carboxymethoxybenzyl)benzofuran (KB130015), an amiodarone derivative. *J. Pharmacol. Exp. Ther.* **308(1)**, 134-142 (2004).
3. Gessner, G., Macianskiene, R., Starkus, J.G., *et al.* The amiodarone derivative KB130015 activates hERG1 potassium channels via a novel mechanism. *Eur. J. Pharmacol.* **632(1-3)**, 52-59 (2010).
4. Gessner, G., Heller, R., Hoshi, T., *et al.* The amiodarone derivative 2-methyl-3-(3,5-diiodo-4-carboxymethoxybenzyl)benzofuran (KB130015) opens large-conductance Ca^{2+}-activated K^+ channels and relaxes vascular smooth muscle. *Eur. J. Pharmacol.* **555(2-3)**, 185-193 (2007).

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