A1899

Cat. No.: HY-103067

CAS No.: 498577-46-1

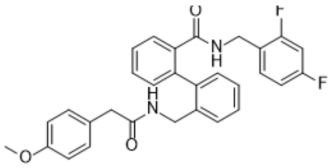
Molecular Formula: $C_{30}H_{26}F_2N_2O_3$

Molecular Weight: 500.54

Target: Potassium Channel

Pathway: Membrane Transporter/Ion Channel

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	A1899 is a potent and highly selective blocker of the K_{2P} channel TASK-1. A1899 has IC_{50} values of 35.1 nM and 7 nM for TASK-1 channels expressed in oocytes and CHO cells, respectively. A1899 is also an I_{Kur} blocker that can be used for the research of cardiovascular diseases[1][2].			
IC_{50} & Target	TASK-1 0.035 μM (IC_{50})	TASK-3 0.318 pg/mL (IC_{50})	TASK-2 12 μM (IC_{50})	TASK-4 8.1 μM (IC_{50})
	TREK-1 23.8 μM (pIC_{50})	TREK-2 8.4 μM (IC_{50})	TRAAK >20 μM (IC_{50})	THIK-1 2.2 μM (IC_{50})
	TRESK 0.9 μM (IC_{50})	Kv1.1 2.7 μM (IC_{50})		

REFERENCES

[1]. Streit AK, et al. A specific two-pore domain potassium channel blocker defines the structure of the TASK-1 open pore. J Biol Chem. 2011 Apr 22;286(16):13977-84.

[2]. Knobloch K, et al. Electrophysiological and antiarrhythmic effects of the novel I(Kur) channel blockers, S9947 and S20951, on left vs. right pig atrium in vivo in comparison with the I(Kr) blockers dofetilide, azimilide, d,l-sotalol and ibutilide. Naunyn Schmiedebergs Arch Pharmacol. 2002 Nov;366(5):482-7.

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