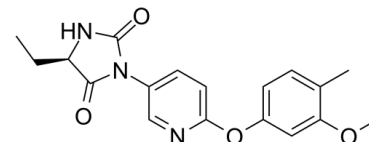


Data Sheet

Product Name:	AUT1
Cat. No.:	CS-0066686
CAS No.:	1311136-84-1
Molecular Formula:	C ₁₈ H ₁₉ N ₃ O ₄
Molecular Weight:	341.36
Target:	Potassium Channel
Pathway:	Membrane Transporter/Ion Channel
Solubility:	DMSO : ≥ 250 mg/mL (732.36 mM)



BIOLOGICAL ACTIVITY:

AUT1 is a **Kv3 potassium channel** modulator, with **pEC₅₀s** of 5.33 and 5.31 for human recombinant Kv3.1b and Kv3.2a, respectively, exhibits 10-fold lower potency at human recombinant Kv3.3 channel (**pEC₅₀**, 4.5)^[1]. IC₅₀ & Target: pEC₅₀: 5.33 (Human recombinant Kv3.1b), 5.31 (Human recombinant Kv3.2a), 4.5 (Human recombinant Kv3.3)^[1]

References:

[1]. Rosato-Siri MD, et al. A Novel Modulator of Kv3 Potassium Channels Regulates the Firing of Parvalbumin-Positive Cortical Interneurons. *J Pharmacol Exp Ther.* 2015 Sep;354(3):251-60.

CAIndexNames:

2,4-Imidazolidinedione, 5-ethyl-3-[6-(3-methoxy-4-methylphenoxy)-3-pyridinyl]-, (5R)-

SMILES:

O=C1N(C2=CC=C(OC3=CC=C(C)C(OC)=C3)N=C2)C([C@@H](CC)N1)=O

Caution: Product has not been fully validated for medical applications. For research use only.

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