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DATASHEET

Co 102862

Product overview

Name	Co 102862
Cat No	HB1013
Alternative names	V102862
Biological action	Blocker
Purity	>99%
Description	Potent voltage-gated Na ⁺ channel blocker

Images



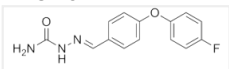
Biological Data

Biological description	Potent voltage-gated Na ⁺ channel blocker. Shows greater affinity for inactive ($K_i = 0.4 \mu\text{M}$) compared to resting state Na _v 1.2 channels ($K_r = 30 \mu\text{M}$). Shows anticonvulsant and potential analgesic actions.
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Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in DMSO (100mM)
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	2-[[4-(4-Fluorophenoxy)phenyl]methylene]hydrazinecarboxamide
Molecular Weight	273.26
Chemical structure	
Molecular Formula	C ₁₄ H ₁₂ FN ₃ O ₂
CAS Number	181144-66-1
PubChem identifier	9816959
SMILES	NC(=O)N\N=C\C1=CC=C(OC2=CC=C(F)C=C2)C=C1
InChIKey	MHUUDVZSPFRUSK-RQZCQDPDSA-N

References

V102862 (Co 102862): a potent, broad-spectrum state-dependent blocker of mammalian voltage-gated sodium channels.

Ilyin VI *et al* (2005) Br J Pharmacol 144(6)

PubMedID [15778702](#)

Pharmacology of 2-[4-(4-chloro-2-fluorophenoxy)phenyl]-pyrimidine-4-carboxamide: a potent, broad-spectrum state-dependent sodium channel blocker for treating pain states.

Ilyin VI *et al* (2006) J Pharmacol Exp Ther 318(3)

PubMedID [16728593](#)

Functional and pharmacological properties of human and rat NaV1.8 channels.

Browne LE *et al* (2009) Neuropharmacology 56(5)

PubMedID [19371587](#)
