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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

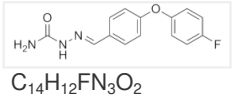
Biological Data

Biological description	Potent voltage-gated Na^+ channel blocker. Shows greater affinity for inactive (K_i = 0.4 µM) compared to resting state $Na_v1.2$ channels (K_r = 30 µM). Shows anticonvulsant and potential analgesic actions.

Solubility & Handling

Solubility overview	Soluble in DMSO (100mM)
Storage instructions	Room temperature
Storage of solutions	Prepare and use solutions on the same day if possible. Store solutions at -20°C for up to one month if storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.
Shipping Conditions	Stable for ambient temperature shipping. Follow storage instructions on receipt.
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	$C_{14}H_{12}FN_3O_2$
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