

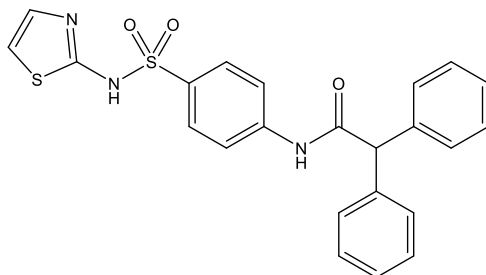
Catalog # 10-4085

ICA-121431

CAS# 313254-51-2

2,2-Diphenyl-N-[4-(1,3-thiazol-2-ylsulfamoyl)phenyl]acetamide

Lot # FBA5125



ICA-121431 is a selective Nav1.1/1.3 inhibitor (hIC50s = 23 and 13 nM respectively; also selective for dog, monkey, and mouse, but not rat).¹ It exclusively shifts voltage dependence to more negative voltages and accelerates entry into slow activation.²

- 1) McCormack *et al.* (2013), *Voltage sensor interaction site for selective small molecule inhibitors of voltage-gated sodium channels*; Proc. Natl. Acad. Sci. USA **110** E2724
- 2) Osteen *et al.* (2017), *Pharmacology of the Nav1.1 domain IV voltage sensor reveals coupling between inactivation gating processes*; Proc. Natl. Acad. Sci. USA **114** 6836

PHYSICAL DATA

Molecular Weight:	449.54
Molecular Formula:	C ₂₃ H ₁₉ N ₃ O ₃ S ₂
Purity:	>98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (>25 mg/ml)
Physical Description:	Off-white to beige solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

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