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Certificate of Analysis

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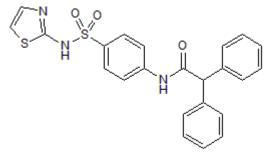
Product Name: ICA 121431

Catalog No.: 5066 Batch No.: 1

CAS Number: IUPAC Name: 313254-51-2 α-Phenyl-*N*-[4-[(2-thiazolylamino)sulfonyl]phenyl]benzeneacetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: Storage: Batch Molecular Structure: $C_{23}H_{19}N_3O_3S_2$.^{1/2}H₂O 458.56 White solid DMSO to 100 mM Store at +4°C



2. ANALYTICAL DATA

HPLC: ¹H NMR: Mass Spectrum: Microanalysis:

Shows 99.8% purity Consistent with structure Consistent with structure

	Carbon	Hydrogen	Nitrogen
Theoretical	60.25	4.4	9.16
Found	60.31	4.45	9.14

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Batch No.: 1

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Product Name: ICA 121431

CAS Number: IUPAC Name:

α-Phenyl-N-[4-[(2-thiazolylamino)sulfonyl]phenyl]benzeneacetamide

Description:

Potent and selective inhibitor of human Na_V1.3 and Na_V1.1 channels (IC₅₀ values are 13 and 23 nM respectively). Exhibits up to 1,000 fold selectivity against other TTX-sensitive or resistant sodium channels (IC₅₀ values are >10 μ M for human Na_V1.5 and Na_V1.8 channels). Interacts with an inhibitory interaction site distinct from those bound by TTX and local anesthetic-like modulators.

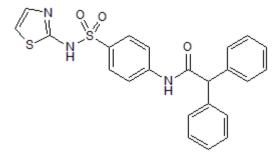
313254-51-2

Physical and Chemical Properties:

Batch Molecular Formula: $C_{23}H_{19}N_3O_3S_2$. V_2H_2O Batch Molecular Weight: 458.56 Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info: DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Catalog No.: 5066

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

McCormack *et al* (2013) Voltage sensor interaction site for selective small molecule inhibitors of voltage-gated sodium channels. Proc.Natl.Acad.Sci. **110** 2724. PMID: 23818614.

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