

Product Name: Dooku 1

Catalog No.: 6568

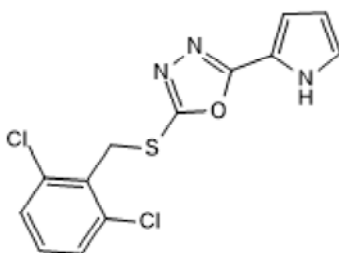
Batch No.: 1

CAS Number: 2253744-54-4

IUPAC Name: 2-[(2,6-Dichlorobenzyl)thio]-5-(1*H*-pyrrol-2-yl)-1,3,4-oxadiazole

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₃H₉Cl₂N₃OS
Batch Molecular Weight: 326.2
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.6 (Ethyl acetate:Petroleum ether [3:7])
HPLC: Shows 100% purity
¹H NMR: consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	47.87	2.78	12.88
Found	47.97	2.69	12.86

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

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Description:

Reversibly blocks Yoda1 (Cat. No. 5586) activity ($IC_{50} = \sim 1.5 \mu M$). Exhibits no effect on constitutive Piezo1 channel activity, but antagonize Yoda1-induced Piezo1 activation in endothelial cells, and inhibits Yoda1-induced Ca^{2+} -entry in vitro. Also blocks Yoda1-induced relaxation of aorta ex vivo.

Physical and Chemical Properties:

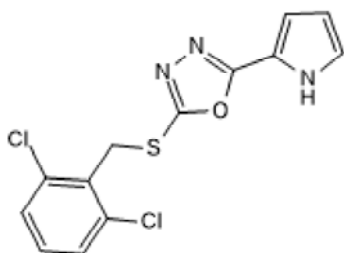
Batch Molecular Formula: $C_{13}H_9Cl_2N_3OS$

Batch Molecular Weight: 326.2

Physical Appearance: White solid

Minimum Purity: $\geq 98\%$

Batch Molecular Structure:



References:

Evans *et al* (2018) Yoda1 analogue (Dooku1) which antagonizes Yoda1-evoked activation of Piezo1 and aortic relaxation. *Br.J.Pharmacol.* **175** 1744. PMID: 29498036.

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).

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.

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