



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

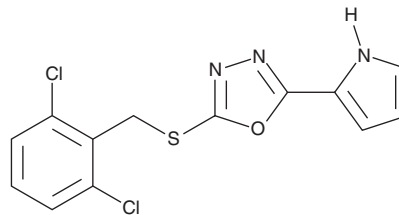
# PRODUCT INFORMATION



## Dooku1

Item No. 39161

**CAS Registry No.:** 2253744-54-4  
**Formal Name:** 2-[[[(2,6-dichlorophenyl)methyl]thio]-5-(1H-pyrrol-2-yl)-1,3,4-oxadiazole  
**MF:** C<sub>13</sub>H<sub>9</sub>Cl<sub>2</sub>N<sub>3</sub>OS  
**FW:** 326.2  
**Purity:** ≥98%  
**UV/Vis.:** λ<sub>max</sub>: 296 nm  
**Supplied as:** A solid  
**Storage:** -20°C  
**Stability:** ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

Dooku1 is supplied as a solid. A stock solution may be made by dissolving the dooku1 in the solvent of choice, which should be purged with an inert gas. Dooku1 is soluble in methanol and DMSO.

### Description

Dooku1 is an antagonist of yoda1-activated Piezo1 ion channels (IC<sub>50</sub> = 1.3 μM in HEK293 cells expressing the human receptor).<sup>1</sup> It is selective for Piezo1 activated by yoda1 (Item No. 21904) over constitutively active Piezo1, transient receptor potential vanilloid 4 (TRPV4), and transient receptor potential canonical 4 (TRPC4) at 10 μM. Dooku1 (10 μM) reduces the percentage of cells with yoda1-induced extracellular phosphatidylserine exposure in red blood cells (RBCs) isolated from patients with sickle cell anemia.<sup>2</sup> Preincubation with dooku1 (10 μM) inhibits yoda1-induced relaxation of isolated mouse aortic rings.<sup>1</sup>

### References

1. Evans, E.L., Cuthbertson, K., Endesh, N., *et al.* Yoda1 analogue (Dooku1) which antagonizes Yoda1-evoked activation of Piezo1 and aortic relaxation. *Br. J. Pharmacol.* **175(10)**, 1744-1759 (2018).
2. Wadud, R., Hannemann, A., Rees, D.C., *et al.* Yoda1 and phosphatidylserine exposure in red cells from patients with sickle cell anaemia. *Sci. Rep.* **10(1)**, 20110 (2020).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

#### WARRANTY AND LIMITATION OF REMEDY

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 10/04/2023

#### CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD  
ANN ARBOR, MI 48108 · USA

**PHONE:** [800] 364-9897

[734] 971-3335

**FAX:** [734] 971-3640

CUSTSERV@CAYMANCHEM.COM  
WWW.CAYMANCHEM.COM