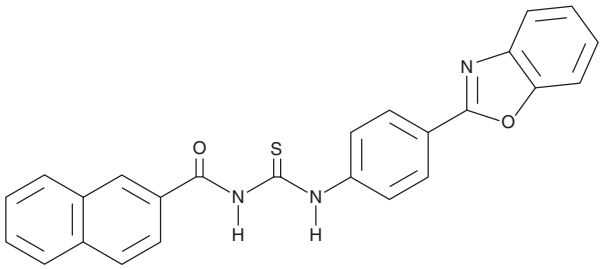
PRODUCT INFORMATION

PDS-0330

Item No. 46524



CAS Registry No.:	2904682-19-3
Formal Name:	N-[[[4-(2-benzoxazolyl)phenyl]amino] thioxomethyl]-2-naphthalenecarboxamide
Synonym:	KVA-E-23A
MF:	$C_{25}H_{17}N_3O_2S$
FW:	423.5
Purity:	≥98%
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

PDS-0330 is supplied as a solid. A stock solution may be made by dissolving the PDS-0330 in the solvent of choice, which should be purged with an inert gas. PDS-0330 is sparingly soluble (1-10 mg/ml) in DMSO.

Description

PDS-0330 is an inhibitor of the protein-protein interaction between claudin-1 and c-Src.[1] It binds to claudin-1 (K_d = 22.9 µM) and reduces the levels of phosphorylated c-Src and Akt in SW620 colorectal cancer cells. PDS-0330 decreases the viability of SW620 cells, which endogenously overexpress claudin-1, but not of HCT116 colorectal cancer cells, which do not express claudin-1 (EC_{50}s = 9.4 and 95 µM, respectively). It induces apoptosis in, and inhibits the migration of, SW620 cells. PDS-0330 (5-10 mg/kg) increases intratumoral apoptosis and reduces tumor volume in a SW620 mouse xenograft model and in a patient-derived xenograft (PDX) mouse model of chemotherapy-resistant colon cancer.

Reference

1. Fatima, I., Uppada, J.P., Chhonker, Y.S., *et al*. Identification and characterization of a first-generation inhibitor of claudin-1 in colon cancer progression and metastasis. *Biomed. Pharmacother.* **159**, 114255 (2023).

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
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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