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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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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

www.szabo-scandic.com

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

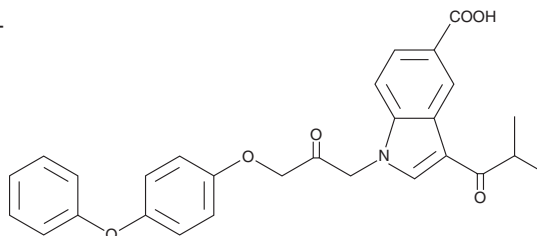
PRODUCT INFORMATION



CAY10650

Item No. 10743

CAS Registry No.: 1233706-88-1
Formal Name: 3-(2-methyl-1-oxopropyl)-1-[2-oxo-3-(4-phenoxyphenoxy)propyl]-1H-indole-5-carboxylic acid
MF: C₂₈H₂₅NO₆
FW: 471.5
Purity: ≥98%
Supplied as: A crystalline 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

CAY10650 is supplied as a crystalline solid. A stock solution may be made by dissolving the CAY10650 in the solvent of choice, which should be purged with an inert gas. CAY10650 is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of CAY10650 in these solvents is approximately 20 mg/ml.

CAY10650 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, CAY10650 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. CAY10650 has a solubility of approximately 0.1 mg/ml in a 1:10 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Cytosolic phospholipase A₂α (cPLA₂α) specifically catalyzes the hydrolysis of arachidonic acid from the *sn*-2-ester position of membrane phospholipids, playing a central role in initiating the synthesis of prostaglandins and leukotrienes, both important mediators of the inflammatory process.¹ CAY10650 is a highly potent (IC₅₀ = 12 nM) cPLA₂α inhibitor.² It demonstrates strong anti-inflammatory effects when applied topically at a dose of 0.1 mg/ear in a mouse model of acute irritant contact dermatitis.² The phase I metabolite of this compound, CAY10641 (Item No. 10662), is also available.

References

- Schaloske, R.H. and Dennis, E.A. The phospholipase A₂ superfamily and its group numbering system. *Biochim. Biophys. Acta* **1761**(11), 1246-1259 (2006).
- Drews, A., Bovens, S., Roebrock, K., et al. 1-(5-carboxyindol-1-yl)propan-2-one inhibitors of human cytosolic phospholipase A₂α with reduced lipophilicity: Synthesis, biological activity, metabolic stability, solubility, bioavailability, and topical in vivo activity. *J. Med. Chem.* **53**(14), 5165-5178 (2010).

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.

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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