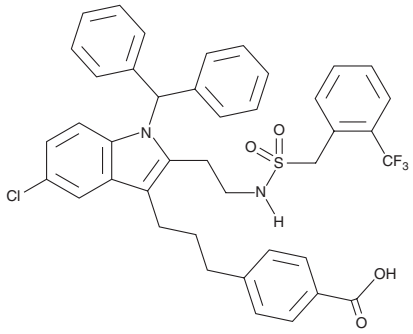
PRODUCT INFORMATION

Giripladib

Item No. 19701



CAS Registry No.:	865200-20-0
Formal Name:	4-[3-[5-chloro-1-(diphenylmethyl)-2-[2-[[[[2-(trifluoromethyl)phenyl]methyl]sulfonyl]amino]ethyl]-1H-indol-3-yl]propyl]-benzoic acid
Synonym:	PLA-695
MF:	$C_{41}H_{36}ClF_3N_2O_4S$
FW:	745.3
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

Giripladib is supplied as a solid. A stock solution may be made by dissolving the giripladib in the solvent of choice, which should be purged with an inert gas. Giripladib is sparingly soluble (1-10 mg/ml) in DMSO and slightly soluble (0.1-1 mg/ml) in acetonitrile.

Description

Giripladib is a cytosolic phospholipase A_2 ($cPLA_2$) inhibitor.[1,2] It increases arachidonoyl-containing phosphatidylcholine levels in thrombin-stimulated isolated human platelets.[1] Giripladib reduces platelet adhesion and accumulation in collagen-coated capillary tubes and inhibits thrombin- or convulxin-stimulated thromboxane B_2 (TXB_2) production in isolated human platelets. It reduces accumulation of PUFAs, malondialdehyde (MDA), and reactive oxygen species (ROS) in primary human vascular smooth muscle cells (VSMCs) stimulated with serum isolated from patients with chronic kidney disease (CKD) and inhibits ferroptosis in the same cells.[2] Giripladib reduces atherosclerotic plaque vulnerability in an *ApoE*$^{-/-}$ mouse model of CKD.

References

1. Duvernay, M.T., Matafonov, A., Lindsley, C.W., *et al.* Platelet lipidomic profiling: Novel insight into cytosolic phospholipase A2α activity and its role in human platelet activation. *Biochemistry* **54(36)**, 5578-5588 (2015).
2. Bi, X., Zhou, J., Liu, L., *et al.* ECH1-deficiency-mediated polyunsaturated fatty acid accumulation promotes vascular smooth muscle cell ferroptosis and chronic-kidney-disease-associated plaque vulnerability. *Research (Wash D.C.)* **9**, 1411 (2026).

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.

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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