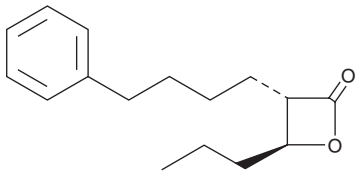
PRODUCT INFORMATION

(±)-*trans*-GK563

Item No. 25732

CAS Registry No.:	2351820-19-2
Formal Name:	(3R,4R)-*rel*-3-(4-phenylbutyl)-4-propyl-2-oxetanone
Synonym:	GK563
MF:	$C_{16}H_{22}O_2$
FW:	246.3
Purity:	≥94%
Supplied as:	A 10 mg/ml solution in methyl acetate
Storage:	-20°C
Stability:	≥1 year



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

Laboratory Procedures

(±)-*trans*-GK563 is supplied as a solution in methyl acetate. To change the solvent, simply evaporate the methyl acetate under a gentle stream of nitrogen and immediately add the solvent of choice. (±)-*trans*-GK563 is slightly soluble in chloroform, DMSO, and methanol.

Description

trans-(±)-GK563 is a potent β-lactone inhibitor of group VIA (GVIA) calcium-independent phospholipase A_2 (GVIA iPLA2; IC_{50} = 1 nM).[1] It is selective for GVIA $iPLA_2$ over GVIA $cPLA_2$ (IC_{50} = 22 µM). *trans*-(±)-GK563 (1 and 10 µM) inhibits apoptosis induced by IL-1β and IFN-γ in INS-1 β-cells.

Reference

1. Dedaki, C., Kokotou, M.G., Mouchlis, V.D., *et al.* β-Lactones: A novel class of Ca^{2+}-independent phospholipase A_2 (group VIA $iPLA_2$) inhibitors with the ability to inhibit β-cell apoptosis. *J. Med. Chem.* **62(6),** 2916-2927 (2019).

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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