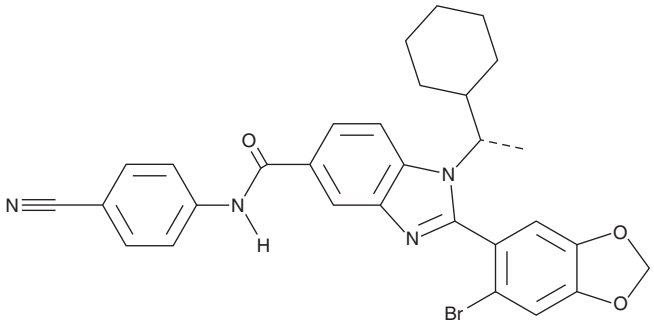
PRODUCT INFORMATION

AZ3451

Item No. 29671

CAS Registry No.:	2100284-59-9
Formal Name:	2-(6-bromo-1,3-benzodioxol-5-yl)-N-(4-cyanophenyl)-1-[(1S)-1-cyclohexylethyl]-1H-benzimidazole-5-carboxamide
MF:	$C_{30}H_{27}BrN_4O_3$
FW:	571.5
Purity:	≥98%
UV/Vis.:	λ_{max}: 232, 298 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

AZ3451 is supplied as a solid. A stock solution may be made by dissolving the AZ3451 in the solvent of choice, which should be purged with an inert gas. AZ3451 is soluble in DMSO.

Description

AZ3451 is an allosteric antagonist of proteinase-activated receptor 2 (PAR2) that inhibits calcium mobilization by wild-type and 10 mutant forms of PAR2 induced by the PAR2 ligand SLIGRL in a FLIPR assay (IC_{50}s = 23 and 12-780 nM, respectively).[1] It is selective for PAR2 over PAR4 and PAR1 (IC_{50}s = <2.5, 380, and >50,000 nM, respectively, in a β-arrestin-2 recruitment assay). AZ3541 completely inhibits SLIGRL-induced phosphorylation of ERK in 1321N1 astrocytoma cells when used at a concentration of 10 µM.

Reference

1. Cheng, R.K.Y., Fiez-Vandal, C., Schlenker, O., *et al.* Structural insight into allosteric modulation of protease-activated receptor 2. *Nature* **545(7652)**, 112-115 (2017).

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