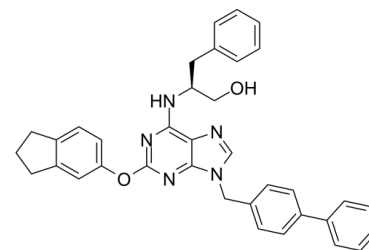


Data Sheet

Product Name:	QS11
Cat. No.:	CS-6989
CAS No.:	944328-88-5
Molecular Formula:	C36H33N5O2
Molecular Weight:	567.68
Target:	Others
Pathway:	Others
Solubility:	H2O : < 0.1 mg/mL (insoluble); DMSO : ≥ 100 mg/mL (176.16 mM)



BIOLOGICAL ACTIVITY:

QS11 is a GTPase activating protein of ADP-ribosylation factor 1 (ARFGAP1) inhibitor. **In Vitro:** QS11 binds and inhibits the GTPase activating protein of ADP-ribosylation factor 1 (ARFGAP1), suggesting that QS11 modulates Wnt/ β -catenin signaling through an effect on protein trafficking. QS11 (2.5 μ M) activates the Super(8X)TOPFlash reporter 200-fold in the presence of Wnt-3a CM, whereas Wnt-3a treatment alone increases reporter activity 40-fold. QS11 increases reporter activity only 2-fold in the absence of Wnt-3a. QS11 shows potent activity (EC_{50} =0.5 μ M) with little cytotoxicity toward HEK293 and human primary fibroblast cells. QS11 effectively reduces in vitro migration of metastatic human breast cancer cells^[1].

PROTOCOL (Extracted from published papers and Only for reference)

Cell Assay: ^[1]ARF-GTP levels are measured by using the GGA binding assay. NIH 3T3 cells are treated with QS11 or QS11-NC at the indicated concentrations for 36 h. Cells are lysed in ARF assay lysis buffer [50 mM Tris-HCl (pH 7.5), 100 mM NaCl, 2 mM MgCl₂, 0.1% SDS, 0.5% sodium deoxycholate, 1% Triton X-100, 10% glycerol, and protease inhibitors]. GTP-bound ARF is assayed by its binding to a GST fusion protein, which contains the VHS domain to the GAT region of an ARF effector GGA3^[1].

References:

[1]. Zhang Q, et al. Small-molecule synergist of the Wnt/beta-catenin signaling pathway. Proc Natl Acad Sci U S A. 2007 May 1;104(18):7444-8.

CAIndexNames:

Benzenepropanol, β -[[9-([1,1'-biphenyl]-4-ylmethyl)-2-[(2,3-dihydro-1H-inden-5-yl)oxy]-9H-purin-6-yl]amino]-, (β S)-

SMILES:

OC[C@H](CC1=CC=CC=C1)NC2=C3C(N(CC4=CC=C(C5=CC=CC=C5)C=C4)C=N3)=NC(OC6=CC=C(CCC7)C7=C6)=N2

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 732-484-9848 Fax: 888-484-5008 E-mail: sales@ChemScene.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA