Product Data Sheet

Product Name: AGL-2263
Cat. No.: GC31371

Chemical Properties

Cas. No.	638213-98-6		
SMILES	O=C(C1=CC(O)=C(O)C=C1)/C(C#N)=C/C2=CC=C(OC3=O)C(N3)=C2		
Formula	$C_{17}H_{10}N_2O_5$	M.Wt	322.27
Solubility	DMSO : 125 mg/mL (387.87 mM)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	AGL-2263		

Protocol

Cell experiment:

Trophoblast cells are prepared from normal or GDM placentas. They are incubated in the presence of stimulants, insulin (100 nM) or both insulin and AGL-2263 (AGL, 5 μM) IR blocker, together for 24 hr[1].

References:

[1]. Li Y, et al. GDM-associated insulin deficiency hinders the dissociation of SERT from ERp44 and down-regulates placental 5-HT uptake. Proc Natl Acad Sci U S A. 2014 Dec 30;111(52):E5697-705.

Background

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AGL 2263 is an inhibitor of the insulin-like growth factor 1 receptor (IGF-1R; IC_{50} = 0.43 μM).[1] It also inhibits the insulin receptor (IR), protein kinase B (PKB), and Src in a cell-free assay (IC_{50}s = 0.4, 55, and 2.2 μM, respectively). AGL 2263 inhibits IGF-1R autophosphorylation and phosphorylation of the downstream elements IRS-1, PKB, and ERK2 in an ATP-independent manner. It inhibits colony formation of PC3 and LNCaP prostate and MCF-7 and MDA-MB-468 breast cancer cells in soft agar (IC_{50}s = 4.3, 9, 17, and 6 μM, respectively).

1.Blum, G., Gazit, A., and Levitzki, A.Development of new insulin-like growth factor-1 receptor kinase inhibitors using catechol mimicsJ. Biol. Chem.278(42)40442-40454(2003)

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