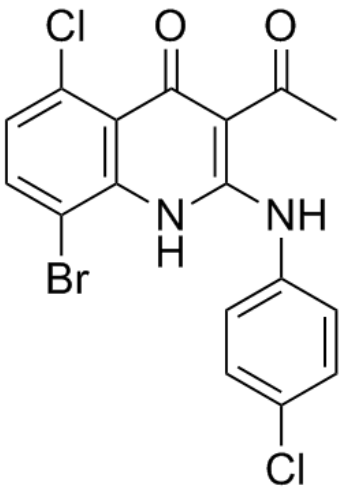
Product Data Sheet

Product Name: KSI-3716
Cat. No.: GC33377

Chemical Properties

Cas. No.	1151813-61-4		
SMILES	ClC1=CC=C(Br)C(NC(NC2=CC=C(Cl)C=C2)=C3C(C)=O)=C1C3=O		
Formula	$C_{17}H_{11}BrCl_2N_2O_2$	M.Wt	426.09
Solubility	DMSO: 5 mg/mL (11.73 mM)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C 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



Protocol

Cell experiment: Ku19-19 cells are seeded 1 day before drug treatment and treated with KSI-3716 (5, 10, 15, 20, 25 μM) for (12, 24, 48 hours). Cell survival assays are performed to count viable cells[1].

Caution: Product has not been fully validated for medical applications. For research use only.
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Animal experiment: Mice[1][1]The control group is administered solvent and the experimental group (5 tumor bearing mice per group) is administered c-MYC inhibitor KSI-3716 (5 mg/kg) intravesically twice weekly for 3 weeks. Luminescence images are obtained twice weekly[1].

References:

[1]. Jeong KC, et al. Intravesical instillation of c-MYC inhibitor KSI-3716 suppresses orthotopic bladder tumor growth. J Urol. 2014 Feb;191(2):510-8.

Background

KSI-3716 is a c-Myc inhibitor.

KSI-3716 blocks c-MYC/MAX from forming a complex with target gene promoters. KSI-3716 effectively blocks complex formation in a dose dependent manner (IC50=0.84 μM). c-MYC mediated transcriptional activity is inhibited by KSI-3716 at concentrations as low as 1 μM. The expression of c-MYC target genes, such as cyclin D2, CDK4 and hTERT, is markedly decreased. KSI-3716 exerts cytotoxic effects on bladder cancer cells by inducing cell cycle arrest and apoptosis[1].

Intravesical instillation of KSI-3716 at a dose of 5 mg/kg significantly suppresses tumor growth with minimal systemic toxicity[1].

[1]. Jeong KC, et al. Intravesical instillation of c-MYC inhibitor KSI-3716 suppresses orthotopic bladder tumor growth. J Urol. 2014 Feb;191(2):510-8.

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