Proteins

Product Data Sheet

IRES-C11

Cat. No.: HY-124811 CAS No.: 342416-30-2 Molecular Formula: $C_{13}H_{11}Cl_{2}NO_{4}$ Molecular Weight: 316.14 Target: c-Myc Pathway: **Apoptosis**

Powder Storage:

-20°C 3 years In solvent -80°C 6 months

> -20°C 1 month

SOLVENT & SOLUBILITY

In Vitro

DMSO: 250 mg/mL (790.79 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	3.1632 mL	15.8158 mL	31.6316 mL
	5 mM	0.6326 mL	3.1632 mL	6.3263 mL
	10 mM	0.3163 mL	1.5816 mL	3.1632 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

IRES-C11 is a spectfic c-MYC internal ribosome entry site (IRES) translation inhibitor. IRES-C11 blocks the interaction of a Description

requisite c-MYC IRES trans-acting factor, heterogeneous nuclear ribonucleoprotein A1, with its IRES. IRES-C11 does not

inhibits BAG-1, XIAP and p53 IRESes $^{[1][2]}$.

IRES-C11 blocks cyclin D1 IRES-dependent initiation and demonstrates synergistic anti-glioblastoma properties when In Vitro

combined with the mechanistic target of mTOR $PP242^{[1]}$.

IRES-C11 (50 nM) significantly inhibits both cyclin D1 and c-MYC IRES activity. IRES-C11 treatment induces a significant shift in both cyclin D1 and c-MYC mRNA to monosomal/nonribosomal fractions, whereas actin mRNA distribution is unaffected. IRES-C11 inhibits both cyclin D1 and c-MYC IRES-mediated mRNA translation, leading to reductions in protein levels. Mechanistic studies with IRES-C11 reveal binding of the inhibitors within the UP1 fragment of heterogeneous nuclear

ribonucleoprotein A1.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

	nanistic Target of Rapamycin (lioblastoma. J Biol Chem. 201		h Reduced Internal Ribosome Entry Site (I	RES)-mediated Translation of Cyclin D1		
[2]. Y Shi, et al. Therapeutic potential of targeting IRES-dependent c-myc translation in multiple myeloma cells during ER stress. Oncogene. 2016 Feb 25;35(8):1015-24.						
			nedical applications. For research use			
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