Product Data Sheet

Product Name: 5S rRNA modificator
Cat. No.: GC35169

Chemical Properties

Cas. No.	1415238-77-5		
SMILES	O=C(N1C=CN=C1)C2=C(C)OC=C2		
Formula	$C_9H_8N_2O_2$	M.Wt	176.17
Solubility	DMSO: ≥ 52 mg/mL (295.17 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	5S rRNA modificator		

Background

FAI is a selective hydroxyl acylation analyzed by primer extension (SHAPE) electrophile reagent used to map RNA structures *in vivo* by forming stable 2’-hydroxy adducts with RNA, blocking reverse transcriptase elongation.[1,2] Its activity can be quenched by dithiothreitol (DTT) *in vitro* and in living cells.[2] FAI has been used to probe the secondary structure of mouse embryonic stem cell 5S rRNA *in vitro*.[1]

1.Spitale, R.C., Crisalli, P., Flynn, R.A., et al.RNA SHAPE analysis in living cellsNat. Chem. Biol.9(1)18-20(2013) 2.Chan, D., Feng, C., Zhen, Y., et al.Comparative analysis reveals furoyl in vivo selective hydroxyl acylation analyzed by primer extension reagents form stable ribosyl ester adductsBiochemistry56(13)1811-1814(2017)

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