Product Data Sheet

Product Name: SPEN-IN-1
Cat. No.: GC69935

Chemical Properties

Cas. No.			
Formula	$C_{27}H_{20}N_4O$	M.Wt	416.47
Solubility	DMSO : 66.67 mg/mL (160.08 mM; Need ultrasonic)	Storage	4°C, away from moisture and light
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	SPEN-IN-1		

Background

SPEN-IN-1 (compound X1) is an inhibitor of **SPEN** which is a protein factor with a $\mathbf{K_d}$ value of 47 nM. SPEN-IN-1 has high selectivity for RepA, a 431-nucleotide domain in Xist (a non-coding RNA prototype) that comprises 8.5 units of a GC-rich motif responsible for gene silencing[1].

SPEN-IN-1 (0-100 μM) □□ RepA-PRC2 □ RepA-SPEN□IC_{50} □□□□ 30 □ 48 μM[1]□

SPEN-IN-1 □□ RepA□PRC2 □ SPEN□K_d □□□□ 400□47 □ 420 nM[1]□

SPEN-IN-1 □□□□□□□□□□□□□ Xist □□□□□□□□□□[1]□

SPEN-IN-1 □□□□ H3K27me3 □ PRC2 □□□[1]□

SPEN-IN-1 □□ RepA-SPEN □□□□□□□[1]□

[1]. Aguilar R, et al. Targeting Xist with compounds that disrupt RNA structure and X inactivation. Nature. 2022 Apr;604(7904):160-166.

Caution: Product has not been fully validated for medical applications. For research use only.
Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA