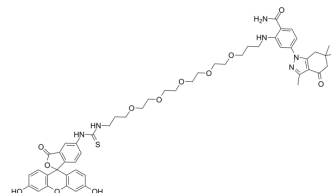


HS-27

Cat. No.:	HY-130851		
CAS No.:	1562024-11-6		
Molecular Formula:	C ₅₂ H ₆₀ N ₆ O ₁₂ S		
Molecular Weight:	993.13		
Target:	HSP		
Pathway:	Cell Cycle/DNA Damage; Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (100.69 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	1.0069 mL	5.0346 mL	10.0692 mL
	5 mM	0.2014 mL	1.0069 mL	2.0138 mL
	10 mM	0.1007 mL	0.5035 mL	1.0069 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (2.52 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (2.52 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.08 mg/mL (2.09 mM); Suspended solution; Need ultrasonic 			

BIOLOGICAL ACTIVITY

Description	HS-27, a fluorescently-tethered Hsp90 inhibitor, assays surface Hsp90 expression on intact tissue specimens. HS-27 is made up of the core elements of SNX-5422, an Hsp90 inhibitor, tethered via a PEG linker to a fluorescein derivative (fluorescein isothiocyanate or FITC), that binds to ectopically expressed Hsp90. HS-27 has potential use in a see-and-treat paradigm in breast cancer ^[1] .
IC₅₀ & Target	HSP90

In Vitro

HS-27 labels all receptor subtypes of breast cancer, but not normal cells, and specifically binds to Hsp90 expressed on the surface of breast cancer cells before being internalized. HS-27 fluorescence is greater in tumor than non-tumor tissue^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Crouch BT, et al. Exploiting heat shock protein expression to develop a non-invasive diagnostic tool for breast cancer. Sci Rep. 2019 Mar 5;9(1):3461.

Caution: Product has not been fully validated for medical applications. For research use only.

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