Product Data Sheet

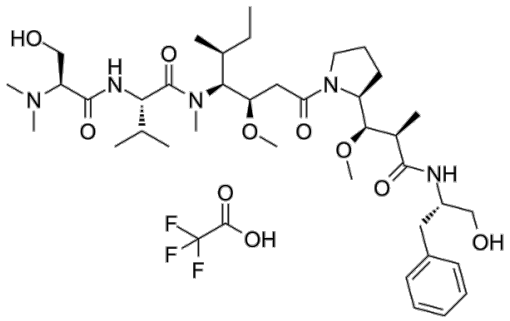
Product Name: Auristatin S TFA
Cat. No.: GC81532

Chemical Properties

Cas. No.

Formula	$C_{40}H_{66}F_3N_5O_{10}$	M.Wt	833.97
Solubility	DMSO: 100 mg/mL (119.91 mM; Need ultrasonic)	Storage	Sealed storage, away from moisture
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



Background

Product Data Sheet

Auristatin S TFA is a potent Auristatin payload. Auristatin S TFA binds to the vinca-binding site on tubulin, thereby inhibiting microtubule assembly and inducing cell cycle arrest and apoptosis. Auristatin S TFA acts as a cytotoxic component of antibody-drug conjugates (ADCs) and exerts target-specific cytotoxicity against cancer cells. Auristatin S TFA can be used in the research of lymphoma, anaplastic large cell lymphoma and Hodgkin lymphoma [1].

In Vitro, Auristatin S (1.4 μM; 1 h) TFA competes with FITC-MMAE for binding to tubulin in a cell-free system[1]. Auristatin S TFA has a LogD value of 1.6, exhibiting lower hydrophobicity and cell permeability compared with MMAE[1]. Auristatin S (96 h) TFA exerts in vitro cytotoxic effects in lymphoma cell lines (DEL, Karpas299, KarpasBVR, L540cy, etc.), with a mean IC_{50} value of 20 nM[1]. Auristatin S (100 nM; 18-72 h) TFA induces markers of immunogenic cell death (HMGB1 release and ATP release) in MiaPaCa and L540cy cells[1].

References:
[1]. Moquist PN, et al. Auristatin S: An Auristatin Payload with Improved Tolerability and Modified Bystander Activity. ACS medicinal chemistry letters. 2025 Jul 10;16(7):1354-1358.

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