

MMAF

货号: M3727

储存条件: 粉末-20°C 可保存 3 年; 液体-80°C 可保存 12 月。

产品描述

MMAF is a potent auristatin-derived antineoplastic agent, working by inhibition of tubulin polymerization^[1]. Different from its analogue MMAE, it has attenuated cytotoxicity due its charged C-terminal phenylalanine. MMAF exhibited cytotoxicity in Karpas 299, H3396, 786-O and Caki-1 cells with IC50 values of 119nM, 105nM, 257nM and 200nM after 96-hour treatment^[2]. For the high toxicity of MMAF, it is usually used as the payload of ADCs (antibody-drug conjugates), such as combination with antibody-drug conjugates such as vorsetuzumab mafodotin or SGN-CD19A. Through the link to specific antibody, the selectivity and potency of MMAF could be proved. For example, the ADC cAC10-L4-MMAF₄ (anti-CD30) showed cytotoxicity to Karpas 299 cells with IC50 value of 0.065 nM (compared with 119nM, MMAF alone). Intravenous injection with cAC10-L4-MMAF₄ at dose of 2mg/kg almost suppressed the median tumor growth in SCID mice xenograft Karpas 299 human ALCL tumors. And the survival was significantly prolonged when the mice were dosed of 8mg/kg cAC10-L4-MMAF₄.

作用机制

MMAF is an auristatin derivate which can inhibi tubulin polymerization and destabilize microtubule structure.

产品信息

CAS 号	745017-94-1	
分子式	Ca9H65N5O8	
分子量	731.96	
溶解度	DMSO	99.0 mg/mL (135.3 mM)
	Ethanol	100.0 mg/mL (136.6 mM)

