



上海源叶生物科技有限公司
Shanghai yuanye Bio-Technology Co., Ltd
电话: 021-61312973 传真: 021-55068248
网址: www.shyuanye.com
邮箱: shyysw@sina.com

产品名称: **KIN1148**
产品别名: **KIN1148**

生物活性:

Description	KIN1148, a small-molecule IRF3 agonist, is a novel influenza vaccine adjuvant found to enhance flu vaccine efficacy.				
In Vitro	KIN1148 induces the dose-dependent nuclear translocation of IRF3 in PH5CH8 cells and specific activation of IRF3- responsive promoters. KIN1148 also elicits greater induction of endogenous IRF3-dependent ISG54 and OASL expression by PH5CH8 cells ^[1] .				
In Vivo	Prime-boost immunization of mice with a suboptimal dose of a monovalent pandemic influenza split virus H1N1 A/California/07/2009 vaccine plus KIN1148 protect against a lethal challenge with mouse-adapted influenza virus (A/California/04/2009) and induce an influenza virusspecific IL-10 and Th2 response by T cells derived from lung and lung-draining lymph nodes. Primeboost immunization with vaccine plus KIN1148, but not prime immunization alone, induce antibodies capable of inhibiting influenza virus hemagglutinin and neutralizing viral infectivity. Nevertheless, a single immunization with vaccine plus KIN1148 provide increased protection over vaccine alone and reduce viral load in the lungs after challenge ^[1] .				
Solvent&Solubility	<i>In Vitro:</i> DMSO : ≥ 100 mg/mL (276.67 mM) * "≥" means soluble, but saturation unknown.				
	Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
		1 mM	2.7667 mL	13.8336 mL	27.6671 mL
		5 mM	0.5533 mL	2.7667 mL	5.5334 mL
		10 mM	0.2767 mL	1.3834 mL	2.7667 mL
	*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液。一旦配成溶液，请分装保存，避免反复冻融造成的产品失效。 储备液的保存方式和期限：-80℃, 6 months; -20℃, 1 month。 -80℃ 储存时，请在 6 个月内使用，-20℃ 储存时，请在 1 个月内使用。				
References	[1]. Probst P, et al. A small-molecule IRF3 agonist functions as an influenza vaccine adjuvant by modulating the antiviral immune response. Vaccine. 2017 Apr 4;35(15):1964-1971.				

实验参考:

Animal Administration	Mice: The final liposomes prior to mixing with vaccine contained KIN1148 (5 mg/mL) and phospholipids (40 mg/mL) and are delivered intramuscularly (KIN1148 at 50 µg and phospholipid at 400 µg per dose). Blank liposomes are prepared without KIN1148 as vehicle control. KIN1148 liposome and blank liposome formulations are stable for at least 4 months at 4°C and are used for <i>in vivo</i> experiments within a month after preparation ^[1] .
References	[1]. Probst P, et al. A small-molecule IRF3 agonist functions as an influenza vaccine adjuvant by modulating the antiviral immune response. Vaccine. 2017 Apr 4;35(15):1964-1971.