



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](http://www.shyuanye.com)  
邮箱: [shyysw@sina.com](mailto:shyysw@sina.com)

产品名称: TUFTSIN TUFTSIN ACETATE SALT HYDRATE  
产品别名: Tuftsin

生物活性:						
Description		Tuftsin is a tetrapeptide. Tuftsin is a macrophage/microglial activator.				
IC <sub>50</sub> & Target		Human Endogenous Metabolite				
In Vitro		Tuftsin is a tetrapeptide, Thr-Lys-Pro-Arg, which resides in the Fc-domain of the heavy chain of immunoglobulin G. Tuftsin possesses a broad spectrum of activities related primarily to the immune system function and exerts on phagocytic cells, notably on macrophages. Tuftsin's capacity to augment cellular activation is mediated by specific receptors that are identified, characterized, and recently isolated from rabbit peritoneal granulocytes[1]. Tuftsin, a macrophage/microglial activator, dramatically improves the clinical course of experimental autoimmune encephalomyelitis (EAE), a well-established animal model for MS. Tuftsin administration correlates with upregulation of the immunosuppressive Helper-2 Tcell (Th2) cytokine transcription factor GATA-3. Tuftsin promotes phagocytic activity for cells of monocytic origin, such as neutrophils, macrophages and microglia, all of which are thought to express Tuftsin receptors[2].				
Solvent&Solubility		In Vitro: H <sub>2</sub> O : ≥ 160 mg/mL (319.62 mM)  * "≥" means soluble, but saturation unknown.				
		Preparing  Stock Solutions	<div><div>Solvent / Mass / Concentration</div><div>1 mg</div></div>	5 mg	10 mg	
			1 mM	1.9976 mL	9.9882 mL	19.9764 mL
			5 mM	0.3995 mL	1.9976 mL	3.9953 mL
			10 mM	0.1998 mL	0.9988 mL	1.9976 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]. Fridkin M, et al. Tuftsin: its chemistry, biology, and clinical potential. Crit Rev Biochem Mol Biol. 1989;24(1):1-40.  [2]. Wu M, et al. Tuftsin promotes an anti-inflammatory switch and attenuates symptoms in experimental autoimmune encephalomyelitis. PLoS One. 2012;7(4):e34933.				