



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: **BI605906**
产品别名: **BI605906**

生物活性:						
Description		BI605906 is a novel IKKβ inhibitor with an IC ₅₀ value of 380 nM when assayed at 0.1 mM ATP.				
IC ₅₀ & Target		IKKβ				
		380 nM (IC ₅₀ , at 0.1 mM ATP)				
In Vitro		BI605906 is an inhibitor of IKKβ with improved selectivity. BI605906 inhibits IKKβ in vitro with an IC50 value of 380 nM when assayed at 0.1 mM ATP. The only other protein kinase that is inhibited of over 100 tested, which include IKKα, IKKε and TBK1, is the insulin-like growth factor 1 (IGF1) receptor (IC50=7.6 μM). BI605906 partially inhibits the IL-1-stimulated activation of IKKε/TBK1[1]. In primary mouse hepatocytes, Metformin treatment for 3 hours suppresses TNFα-induced degradation of the NF-κB negative regulator IκB, while modulating AMPK and MTOR signaling in a dose-dependent manner. The magnitude of the effect on IκB is comparable with BI605906. Unlike Metformin, BI605906 (10 μM) does not suppress signaling downstream of mTOR nor does it activate AMPK. TNF-α-dependent expression of CINC-1/CXCL1, CXCL2, IL-1β, and IL-6 is strongly inhibited by both Metformin and BI605906 (10 μM)[2].				
Solvent&Solubility		In Vitro: DMSO : ≥ 29 mg/mL (67.05 mM) * "≥" means soluble, but saturation unknown.				
		Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
			1 mM	2.3121 mL	11.5604 mL	23.1209 mL
			5 mM	0.4624 mL	2.3121 mL	4.6242 mL
			10 mM	0.2312 mL	1.1560 mL	2.3121 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]. Clark K, et al. Novel cross-talk within the IKK family controls innate immunity. Biochem J. 2011 Feb 15;434(1):93-104. [2]. Cameron AR, et al. Anti-Inflammatory Effects of Metformin Irrespective of Diabetes Status. Circ Res. 2016 Aug 19;119(5):652-65.				
实验参考:						
Cell Assay		Primary hepatocytes are incubated in serum-free medium overnight and then stimulated for 3 h with or without 2 mM Metformin and TNF-α. In addition, cells are incubated with/without 10 μM BI605906 or 100 nM Rapamycin, before lysis and immunoblotting[2].				
		[1]. Clark K, et al. Novel cross-talk within the IKK family controls innate immunity. Biochem J. 2011 Feb 15;434(1):93-104.				



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References

[2]. Cameron AR, et al. Anti-Inflammatory Effects of Metformin Irrespective of Diabetes Status. Circ Res. 2016 Aug 19;119(5):652-65.



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