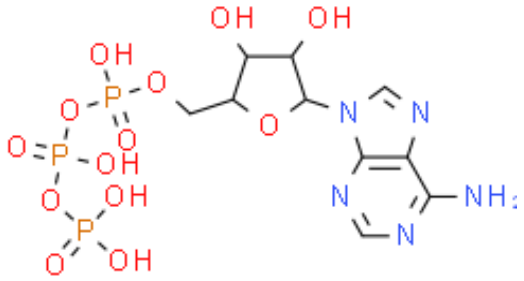
Product Data Sheet

Cas No.:	56-65-5	Cat. No:	PC62819
Product Name:	ATP		
Product synonym:	5'-三磷酸腺苷;腺苷-5'-三磷酸;三磷腺苷;ATP【三磷酸腺苷】;三磷酸腺苷;5 -三磷酸腺苷(ATP);5’-三磷酸腺苷;5''-三磷酸腺苷;5-三磷酸腺苷;5'-三磷酸腺苷(ATP);三磷酸腺苷酸;三磷酸腺苷酸（氢型）;腺苷-5'-三磷酸 标准品;腺苷-5-三磷酸;腺苷-5’-三磷酸		
Chemical name:	ATP		
MF:	C10H16N5O13P3	FW:	507.1810
Purity:	≥99%	Batch No.:	-
Storage:			
Structural formula:			
λmax:	-	Formulation:	-
Solubility :			
SMILES :	P(=O)(O[H])(OP(=O)(O[H])OP(=O)(O[H])O[H])OC([H])([H])[C@]1([H])[C@]([H])([C@]([H])([C@]([H])(N2C([H])=NC3=C(N([H])[H])N=C([H])N=C23)O1)O[H])O[H]		
InChI Code:	-		
InChI Key:			
WARNING This product is not for human or veterinary use.			

Product Description

ATP (Adenosine 5'-triphosphate) 是体内能量储存和代谢的重要物质，为代谢提供能量，同时在细胞中作为辅酶发挥作用。ATP 是免疫和炎症中重要的内源性信号分子。

生物活性	ATP (Adenosine 5-triphosphate) is a central component of energy storage and metabolism in vivo. ATP provides the metabolic energy to drive metabolic pumps and serves as a coenzyme in cells. ATP is an important endogenous signaling molecule in immunity and inflammation.
IC50 & Target[1][2]	Human Endogenous Metabolite

体外研究(In Vitro)

ATP (5 mM; 1 hour) co-treatment with LPS (1 μg/mL) has a synergistic effect on the activation of the NLRP3 inflammasome in HGFs.

ATP (2 mM; 0.5-24 hours) induces secretion of IL-1β, KC and MIP-2 from BMDMs in a caspase-1 activation-dependent manner.

ATP promotes neutrophil chemotaxis in vitro.

Medlife has not independently confirmed the accuracy of these methods. They are for reference only.

体内研究(In Vivo)

ATP (50 mg/kg; i.p.) protects mice against bacterial infection in vivo.

ATP induces the secretion of IL-1β, KC and MIP-2 and neutrophils recruitment in vivo.

Medlife has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:

包装储存

Powder； -20°C； 3 years; 4°C； 2 years；

溶解度数据

体外研究:

H_2O : ≥ 100 mg/mL(197.17 mM)

*≥ means soluble, but saturation unknown.

配制储存液