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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Phosphofructokinase, *Bacillus stearothermophilus*

Cat. No.:	HY-P2819A	
CAS No.:	9001-80-3	
Target:	Endogenous Metabolite	
Pathway:	Metabolic Enzyme/Protease	Phosphofructokinase, <i>Bacillus stearothermophilus</i>
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

BIOLOGICAL ACTIVITY

Description

Phosphofructokinase from *Bacillus stearothermophilus* is a key enzyme in sugar metabolism that catalyzes the conversion of fructose-6-phosphate to fructose-1,6-bisphosphate during glycolysis. The enzyme's ability to bind fructose-6-phosphate can be inhibited by phosphoenolpyruvate (PEP), thereby regulating the rate of glycolysis. Phosphofructokinase from *Bacillus stearothermophilus* can be used for the measurement of fructose-6-phosphate levels^{[1][2]}.

REFERENCES

- [1]. Kimmel JL, et al. Reevaluation of the accepted allosteric mechanism of phosphofructokinase from *Bacillus stearothermophilus*. *Proc Natl Acad Sci U S A*. 2000 Apr 11;97(8):3844-9.
- [2]. Byrnes M, et al. Kinetic characteristics of phosphofructokinase from *Bacillus stearothermophilus*: MgATP nonallosterically inhibits the enzyme[J]. *Biochemistry*, 1994, 33(11): 3424-3431.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA