Sensor histidine kinase NatK Protein, Bacillus subtilis (Cell-Free, His)

Cat. No.:	HY-P702431
Synonyms:	Sensor histidine kinase NatK
Species:	Others
Source:	E. coli Cell-free
Accession:	P70954 (M1-K318)
Gene ID:	938382
Molecular Weight:	36.6 kDa

PROPERTIES

AA Sequence	M I T L F Q C L Y L I L F S F I C Y Q G A A A F S H S T A A S W L A A A L G A A A A G L Y I W N T K R V W K H C S S G L C A W I A V I Q V M S V G V V L I G T D I M P V L C V I A I F A G C E G L R I G Q S A L Q A R L S D Q I D K L T Q A E Q H A N Q M L I D V R S R N H D T M K H I T A I K S A Q P K A D T Q A Y I Q N W A D Q Y S Q Y D R F L K G E N A Y V A G V L Y D F L E K A R A S N V S V S L H M H T P L S S L P F S P A D Q V S L V G N I L E N A L D S A A E A R E K A E I K L E T S L R S G L Y V L T C E N S T P G M D P K V L D T I Y Q S F G R S T K N G A H E G M G T Y I I Q K L V K G A F G R L D F T Y R H P I F R L E I K I P F Q K
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Sensor histidine kinase NatK Protein, a component of the two-component regulatory system NatK/NatR, functions as a positive regulator in the control of the natAB operon expression. This protein has the potential to phosphorylate NatR, highlighting its role in mediating signal transduction within the bacterial cell. The NatK/NatR system represents a molecular

mechanism employed by the cell to modulate gene expression, emphasizing the intricate regulatory processes orchestrated by sensor histidine kinases in bacterial signaling pathways.

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