

## Product Data Sheet

## Profilin-4 Protein, Human (His)

Cat. No.:	HY-P73697
Synonyms:	Profilin-4; Profilin IV; PFN4
Species:	Human
Source:	E. coli
Accession:	Q8NHR9 (M1-S129)
Gene ID:	375189
Molecular Weight:	Approximately 14 kDa

PROPERTIES
PROPERTIES
AA Sequence
Appearance
Formulation
Endotoxin Level
Reconsititution
Storage & Stability
Shipping

## DESCRIPTION

Background	Profilin-4 protein plays a crucial role in male fertility, being essential for manchette development and acrosome biogenesis
	during spermiogenesis. This protein exhibits binding affinity in vitro to various phospholipids, including
	phosphatidylinositol 3-phosphate (PtdIns(3)P), phosphatidylinositol 4,5-bisphosphate (PtdIns(4,5)P2), phosphatidylinositol
	4-phosphate (PtdIns(4)P), and phosphatidic acid (PA). Notably, unlike other members of the profilin family, Profilin-4 does
	not bind to actin in vitro. These distinctive properties underscore its specialized functions in the intricate processes of male
	reproductive physiology, particularly in the development of manchette and acrosome during sperm maturation.

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

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