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**Product Data Sheet**


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Product Name: AKAP7 Human  
 Cat. No.: GP22418  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	A kinase (PRKA) anchor protein 7; A-kinase anchor protein 18 kDa; A-kinase anchor protein 9; kDa PRKA7 isoforms alpha/beta; PRKA7 isoform gamma; AKAP15; AKAP18.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSHMGQLCC FPFSRDEGKI SEKNGGEPDD AELVRLSKRL VENAFLKAVQ QYLEETQNK KPGEGSSVKT EAADQNGNDN ENNRK		
Formulation	The AKAP7 solution (1mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 50mM NaCl, 1mM DTT and 10% glycerol.		

**Introduction**

AKAP7 is a member of the A-kinase anchoring protein (AKAP) family, a group of functionally related proteins which bind to a regulatory subunit (RII) of cAMP-dependent protein kinase A (PKA) and target the enzyme to specific subcellular sections. AKAP7 is expressed in heart, brain, pancreas, lung and skeletal muscle. AKAP7 binds PKA to the plasma membrane, and allows efficient coupling to the L-type calcium channel.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Background**

AKAP7 Human Recombinant produced in E. coli is a single polypeptide chain containing 105 amino acids (1-81) and having a molecular mass of 11.5kDa. AKAP7 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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

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