

## aKMT Protein, Sulfolobus islandicus

Cat. No.:	HY-P701940
Synonyms:	Protein-lysine N-methyltransferase; Archaeal protein lysine methyltransferase; aKMT
Species:	Others
Source:	E. coli
Accession:	F0NBH8 (S2-K161)
Gene ID:	8761611
Molecular Weight:	

### PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

### DESCRIPTION

Background	The aKMT protein functions as a lysine methyltransferase, catalyzing the methylation of lysine residues in target proteins. This enzymatic activity is accomplished using S-adenosyl-L-methionine (SAM) as the methyl donor. aKMT displays broad substrate specificity and has the capability to methylate various target proteins. In particular, it has been observed to methylate the crenarchaeal chromatin protein Cren7 at specific lysine residues, including 'Lys-11,' 'Lys-16,' and 'Lys-31.' Additionally, aKMT exhibits sequence-independent lysine methylation, showcasing its versatility in modifying a range of target proteins in vitro.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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