S100A16 Protein, Human

Cat. No.:	HY-P71273
Synonyms:	Protein S100-A16; Aging-associated gene 13 protein; Protein S100-F; S100 calcium-bindingprotein A16; S100A16; S100F; AAG13
Species:	Human
Source:	E. coli
Accession:	Q96FQ6 (M1-S103)
Gene ID:	140576
Molecular Weight:	Approximately 12.0 kDa

PROPERTIES

AA Sequence	M S D C Y T E L E K A V I V L V E N F Y K Y V S K Y S L V K N K I S K S S F R E M L Q K E L N H M L S D T G N R K A A D K L I Q N L D A N H D G R I S F D E Y W T L I G G I T G P I A K L I H E Q E Q Q S S S
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM Tris, 500 mM NaCl, 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.
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	S100A16 is a calcium-binding protein known to bind one calcium ion per monomer. It has been implicated in various cellular processes, particularly in adipocyte differentiation. In vitro studies suggest that S100A16 can promote the differentiation of adipocytes. Notably, overexpression of S100A16 in preadipocytes has been associated with increased proliferation, enhanced adipogenesis, and a reduction in insulin-stimulated glucose uptake. The protein forms homodimers and has been shown to interact with TP53, suggesting a potential role in cellular signaling pathways. These findings underscore the multifaceted nature of S100A16, indicating its involvement in calcium-dependent processes and its impact on cellular differentiation and metabolic regulation.

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

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