S100A6 Protein, Mouse

Cat. No.:	HY-P74584
Synonyms:	Protein S100-A6; Calcyclin; MLN 4; PRA; S100 calcium-binding protein A6; CACY
Species:	Mouse
Source:	E. coli
Accession:	NP_035443.1 (M1-K89)
Gene ID:	20200
Molecular Weight:	Approximately 10 kDa

PROPERTIES

AA Sequence	M A C P L D Q A I G L L V A I F H K Y S G K E G D K H T L S K K E L K E L I Q K E L T I G S K L Q D A E I A R L M D D L D R N K D Q E V N F Q E Y V A F L G A L A L I Y N E A L K
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
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 a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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	S100A6 protein exhibits calcium ion binding activity and zinc ion binding activity, underscoring its role as a multifunctional regulator. This protein is localized in the collagen-containing extracellular matrix, signifying its involvement in extracellular processes. Its expression is observed in various structures, including the eye, genitourinary system, gut, hemolymphoid system gland, and trophectoderm, indicating its potential roles in diverse physiological functions. The orthologous relationship to human S100A6 emphasizes the evolutionary conservation of this protein across species. Moreover, its biased expression in specific tissues, such as the bladder and colon, highlights its potential significance in the context of tissue-specific functions and regulation.

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

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