

S100A2 Protein, Human (HEK293, hFc)

Cat. No.:	HY-P74585
Synonyms:	Protein S100-A2; CAN19; Protein S-100L; S100 calcium-binding protein A2; S100L
Species:	Human
Source:	HEK293
Accession:	NP_005969.1 (M2-P98)
Gene ID:	6273
Molecular Weight:	Approximately 40 kDa

PROPERTIES

AA Sequence	<p>M C S S L E Q A L A V L V T T F H K Y S C Q E G D K F K L S K G E M K E L L H K</p> <p>E L P S F V G E K V D E E G L K K L M G S L D E N S D Q Q V D F Q E Y A V F L A</p> <p>L I T V M C N D F F Q G C P D R P</p>
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of 100 mM Glycine, 10 mM NaCl, 50 mM Tris, pH 7.5 or 50 mM Tris, 10 mM NaCl, 100 Glycane, PH 7.5.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. 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	<p>Protein S100-A2 (S100A2) is a member of the S100 family of proteins containing 2 EF-hand calcium-binding motifs. S100A2 is localized in the cytoplasm and/or nucleus of a wide range of cells, and involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. S100A2 may function as calcium sensor and modulator, contributing to cellular calcium signaling or function by interacting with other proteins, such as TPR-containing proteins, and indirectly play a role in many physiological processes. S100A2 may also play a role in suppressing tumor cell growth, chromosomal rearrangements and altered expression of S100A2 have been implicated in breast cancer^{[1][2]}.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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