S100A13 Protein, Mouse (His)

Cat. No.:	HY-P76583
Synonyms:	Protein S100-A13; S100A13; S100 calcium-binding protein A13
Species:	Mouse
Source:	E. coli
Accession:	P97352 (M1-K98)
Gene ID:	20196
Molecular Weight:	Approximately 15 kDa

PROPERTIES

Appearance	Solution
Formulation	Supplied as a 0.2 μm filtered solution of PBS, 10% Glycerol, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	N/A.
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 S100A13 protein plays a crucial role in the export of proteins that lack a signal peptide and are secreted through an alternative pathway. It has the ability to bind two calcium ions per subunit and one copper ion, with the binding of the latter not interfering with calcium binding. S100A13 is essential for the copper-dependent stress-induced export of IL1A and FGF1. Interestingly, the calcium-free form of the protein can bind to lipid vesicles containing phosphatidylserine but not those containing phosphatidylcholine. S100A13 functions as a homodimer and is part of a copper-dependent multiprotein complex alongside FGF1 and SYT1. It also interacts with FGF1, SYT1, and IL1A.

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