

## SCGB2A1 Protein, Human (HEK293, Fc)

Cat. No.:	HY-P77076
Synonyms:	Mammaglobin-B; Lacryglobin; Secretoglobin family 2A member 1; LIPHC; MGB2; UGB3
Species:	Human
Source:	HEK293
Accession:	O75556 (M1-N95)
Gene ID:	4246
Molecular Weight:	Approximately 35.6 kDa.

### PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of PBS,pH7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	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 SCGB2A1 protein emerges as a versatile binding entity, potentially interacting with androgens, other steroids, and the chemotherapeutic agent estramustine used in prostate cancer treatment. Additionally, it may be subject to transcriptional regulation by steroid hormones, indicating a potential involvement in hormonal signaling pathways. Structurally, SCGB2A1 forms a heterodimer consisting of a lipophilin A and a lipophilin C (mammaglobin B) monomer, arranged in a head-to-head association. The diverse binding capabilities and structural arrangement suggest that SCGB2A1 may play a multifaceted role in hormonal regulation, potentially influencing cellular responses to steroids and chemotherapeutic agents in contexts such as prostate cancer. Further investigation is warranted to unravel the specific contributions of SCGB2A1 to these complex biological processes.

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

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