

# Recombinant Human SPTA1 Protein Product Manual

## 1. Product Basic Information

**Product No.:** REP08329

**Protein Name:** Alpha-I Spectrin (SPTA1)

**Aliases:** EL2; HPP; HS3; SPH3; SPTA; alpha-I spectrin; elliptocytosis erythroid alpha-spectrin; spectrin alpha chain, erythrocytic 1

**UniProt ID:** P02549

**UniProt Link:** <https://www.uniprot.org/uniprotkb/P02549/entry>

**Species Source:** Homo sapiens (Human)

**Expression System:** Baculovirus

**Protein Length:** Partial (53-474aa)

**Molecular Weight:** 51.7 kDa

**Protein Tag:** N-terminal 10xHis-tagged

## 2. Amino Acid Sequence (53-474aa)

YHLQVFKRDADDLQKWIWMEKVNILTDKSYEDPTNIQGGKYQKHQSLEAEVQTKSRLM  
SELEKTREERFTMGHSAHEETKAHIEELRHLWDLLELTLEKGDQLLRALKFQQYVQ  
ECADILEWIGDKAEIATSVELGEDWERTEVLHKKFEDFQVELVAKEGRVVEVNQYA  
NECAEENHPDLPLIQSKQNEVNAAWERLRGLALQRQKALSNAANLQRFKRDVTEAI  
QWIKKEPVLTSYDYGKDLVASEGLFHSKGLERNLAVMSDKVKELCAKAEKLTLS  
HPSDAPQIQEMKEDLVSSWEHIRALATSRYEKLQATYWYHRFSSDFDELSGWMNE  
KTAAINADELPTDVAGGEVLLDRHQQHKHEIDSYDDRFQSADETGQDLVNANHEAS  
DEVREKMEILDNNWTALLELWDERHRQYEQ

## 3. Storage Buffer

**Liquid Delivery Form:** Tris/PBS-based buffer with 5%-50% glycerol. Custom glycerol content is available upon customer request (please specify requirements when placing orders).

**Lyophilized Powder Delivery Form:** Pre-lyophilization buffer is Tris/PBS-based buffer containing 6% Trehalose.



## 4. Storage Conditions

Upon receipt, store the product at -20°C or -80°C. It is recommended to aliquot the protein for multiple uses to avoid repeated freeze-thaw cycles, which may cause protein denaturation and activity loss.

## 5. Product Description

This product is a recombinant Human SPTA1 partial protein (53-474aa) expressed in Baculovirus. The protein is with 10xHis tag at the N-terminus, which facilitates protein purification, detection and identification. SPTA1, also known as EL2 or HPP or HS3, is suitable for related in vitro functional assays, protein interaction studies, antibody preparation and other biomedical research applications.

## 6. Notes

- Repeated freezing and thawing of the product is strictly prohibited to ensure protein stability and biological activity.
- For special buffer component requirements, please submit a note when purchasing.
- This product is only for scientific research use, not for clinical diagnosis, treatment or commercial production purposes.