

## Stomatin/STOM Protein, Human (HEK293, Fc)

<b>Cat. No.:</b>	HY-P77216
<b>Synonyms:</b>	Erythrocyte band 7 integral membrane protein; Protein 7.2b; BND7; EPB72
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	P27105 (K55-G288)
<b>Gene ID:</b>	2040
<b>Molecular Weight:</b>	Approximately 75 kDa.

### PROPERTIES

<b>AA Sequence</b>	<p>           K I I K E Y E R A I    I F R L G R I L Q G    G A K G P G L F F I    L P C T D S F I K V            D M R T I S F D I P    P Q E I L T K D S V    T I S V D G V V Y Y    R V Q N A T L A V A            N I T N A D S A T R    L L A Q T T L R N V    L G T K N L S Q I L    S D R E E I A H N M            Q S T L D D A T D A    W G I K V E R V E I    K D V K L P V Q L Q    R A M A A E A E A S            R E A R A K V I A A    E G E M N A S R A L    K E A S M V I T E S    P A A L Q L R Y L Q            T L T T I A A E K N    S T I V F P L P I D    M L Q G I I G A K H    S H L G         </p>
<b>Appearance</b>	Lyophilized powder
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	<p>Stomatin/STOM protein serves as a key regulator of ion channel activity and transmembrane ion transport. It exerts its influence on ASIC2 and ASIC3 channel activity, forming homodimers and higher-order homooligomers that exhibit a distinctive banana-shaped structure. Stomatin/STOM interacts with ASIC1, ASIC2, and ASIC3, suggesting its involvement in modulating their functions. Additionally, it forms complexes with LANCL1, and its interaction with SLC2A1 positively regulates SLC4A1 activity. Stomatin/STOM is also part of large complexes involving SLC40A1, SLC14A1, SLC29A1, and AQP1, further emphasizing its role in intricate cellular processes. Furthermore, its interaction with STOML1 suggests a potential</p>
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role in redistributing STOM from the plasma membrane to late endosomes, adding another layer to its regulatory functions.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA