

## ROM1 Protein, Human (His)

Cat. No.:	HY-P74594
Synonyms:	Rod outer segment membrane protein 1; ROSP1; Tspan-23; ROM1; TSPAN23
Species:	Human
Source:	E. coli
Accession:	Q03395 (P126-D263)
Gene ID:	6094
Molecular Weight:	Approximately 18 kDa

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 $\mu$ m filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ $\mu$ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> O.
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	ROM1 protein is implicated in rod outer segment (ROS) morphogenesis and, in collaboration with PRPH2, contributes to maintaining the structure of curved disks within the ROS. Additionally, it plays a vital role in organizing the ROS and preserving the diameter of its disks. Beyond its role in the visual system, ROM1 is involved in maintaining the outer nuclear layer of the retina. It forms homodimers and homotetramers, with the latter participating in higher-order complex formation through intermolecular disulfide bonds. ROM1 also forms heterotetramers with PRPH2 and interacts with proteins such as STX3 and SNAP25, suggesting its involvement in complex cellular processes.
------------	--

**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