

Human SMR3B Protein

Cat. No. SMR-HM33B

Description

Source	Recombinant Human SMR3B Protein is expressed from HEK293 with mFc (IgG1) tag at the C-terminus. It contains Gln23-Pro79.
Accession	NP_006676.1
Molecular Weight	The protein has a predicted MW of 31.47 kDa. Due to glycosylation, the protein migrates to 35-40 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

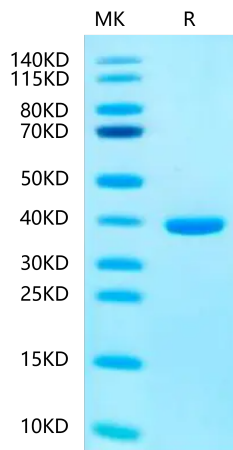
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

SMR3B (P-B, PRL3, PROL3), namely submaxillary gland androgen regulated protein 3B, is a proline-rich protein specifically expressed in salivary glands. The SMR3B is an 8.188 kilodalton protein that belongs to the gene family whose other members are SMR3A and PROL1, which all produce opiorphin homologs. It is predicted to enable endopeptidase inhibitor activity and be involved in cellular response to lipopolysaccharide. SMR3B also regulates pain perception.

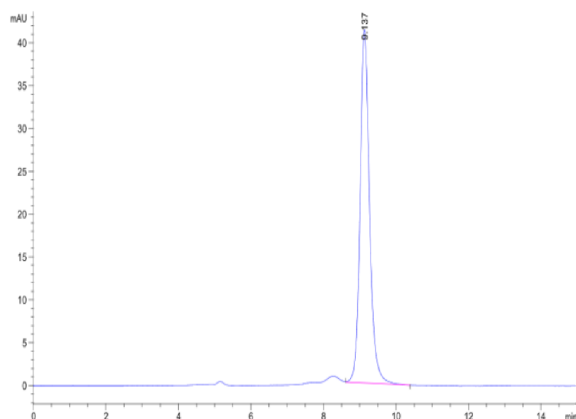
Assay Data

Tris-Bis PAGE



Human SMR3B on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Human SMR3B is greater than 95% as determined by SEC-HPLC.