



# Recombinant Mouse ACTN1 Protein Product Manual

## 1. Product Basic Information

**Product No.:** REP06036

**Protein Name:** Actinin Alpha Alpha-Actinin-Actinin 1 Smooth Muscle (ACTN1)

**Aliases:** actinin alpha alpha-actinin-actinin 1 smooth muscle; epididymis secretory sperm binding protein

**UniProt ID:** P12814

**UniProt Link:** <https://www.uniprot.org/uniprotkb/P12814/entry>

**Species Source:** Mus musculus (Mouse)

**Expression System:** E.coli

**Protein Length:** Partial (31-250aa)

**Molecular Weight:** 32.0 kDa

**Protein Tag:** C-terminal 6xHis-tagged

## 2. Amino Acid Sequence (31-250aa)

KQQRKTFTAWCNSHLRKAGTQIENIEEDFRDGLKMLLLEVISGERLAKPERGKMR  
VHKISNVNKALDFIASKGVKLVSIGAEEIVDGNVKMTLGMWTIILRFAIQDISVEETSA  
KEGLLLWCQRKTAPYKNVNIQNFHISWKDGLGFCALHRHRPELIDYGKLRKDDPLT  
NLNTAFDVAERFLDIPKMLDAEDIVGTARPDEKAIMTYVSSFYHAFS

## 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

## 5. Product Description

This product is a recombinant Mouse ACTN1 partial protein (31-250aa) expressed in E.coli. The protein is with 6xHis tag at the C-terminus, which facilitates protein purification, detection and identification. ACTN1, also known as actinin alpha alpha-actinin-actinin 1 smooth muscle or epididymis secretory sperm binding protein, 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.