

# Recombinant Mouse FRK Protein

**For Research Use Only**

## 1. Basic Product Information

Catalog No.: REP51837

Size: 10ug, 100ug

Protein Name: Tyrosine-protein kinase FRK (EC 2.7.10.2) (Beta-cell Src-homology tyrosine kinase) (BSK) (FYN-related kinase) (Intestine tyrosine kinase)

Synonym: Frk, Bsk, Iyk

UniProt ID: Q922K9

UniProt Link: [www.uniprot.org/uniprotkb/Q922K9/entry](http://www.uniprot.org/uniprotkb/Q922K9/entry)

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 512 AA

Molecular Weight: 59 KD

Protein Tag: C-terminal His6

## 2. Amino Acid Sequence

MGSVCVRLWAYLQPFLLPCWSQEADKSVVIENPGAFPCPEAPRSQEPERSHGQYFVALFDYQARTA  
EDLSFRAGDKLQVLDTSHEGWLLARHLEKKGTGLGQQQLQGYIPSNYVAEDRSLQAEPWFFGAIKR  
ADAEKQLLYSENQTGAFLIRESESQKGDFFSLSVLDEGVVKHYRIRRLDEGGFFLTRRKVFSTLNEFV  
NYTTTSDGLCVKLEKPKLIQVPTPFDLSYKTADQWEIDRNSIQLLKRLGSGQFGEVWEGWLWNNTT  
PVAVKTLKPGSMDPNDFLREAQIMKSLRHPKLIQLYAVCTLEDPIYIITELMRHGSLQEYLQNDGGSKI  
HLIQQVDMAAQVASGMAYLESQNYIHRDLAARNVLVGEHNIYKVADFGLARVFKVDNEDIYESKHEIK  
LPVKWTAPEAIRTNKFSIKSDVVSFGILLYEITYGKMPYSGMTGAQVIQMLSQNYRLPQPSNCPQQF  
YSIMLECWNVEPKQRPTFETLHWKLEDYFETDCSYSDTNNFIN

## 3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

## 4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

## 5. Product Description

This product is recombinant Tyrosine-protein kinase FRK (EC 2.7.10.2) (Beta-cell Src-homology tyrosine kinase) (BSK) (FYN-related kinase) (Intestine tyrosine kinase) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

**Protein Function:** Non-receptor tyrosine-protein kinase that negatively regulates cell proliferation. Positively regulates PTEN protein stability through phosphorylation of PTEN on 'Tyr-336', which in turn prevents its ubiquitination and degradation, possibly by reducing its binding to NEDD4. May function as a tumor suppressor (By similarity).

**Subcellular Localization:** Cytoplasm . Nucleus . Note=Predominantly found in the nucleus, with a small fraction found in the cell periphery.

## 6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.