

## Product datasheet for **TP306626M**

### **PACSIN1 (NM\_020804) Human Recombinant Protein**

#### **Product data:**

|                              |  |
|------------------------------|--|
| <b>Product Type:</b>         | Recombinant Proteins   |
| <b>Description:</b>          | Recombinant protein of human protein kinase C and casein kinase substrate in neurons 1 (PACSIN1), 100 µg |
| <b>Species:</b>              | Human  |
| <b>Expression Host:</b>      | HEK293T  |
| <b>Expression cDNA</b>       | >RC206626 representing NM_020804   |
| <b>Clone or AA Sequence:</b> | Red=Cloning site Green=Tags(s)   |

MSSSYDEASLAPEETTSFWEVGNKRTVKRIDDGHRLCNDLMNCVQERAKIEKAYGQQLTDWAKRWRQL  
IEKGPQYGLERAWGAIMTEADKVELHQEVKNNLLNEDLEKVKNWQKDAYHKQIMGGFKETKEAEDGFR  
KAQKPWAKKMKLEAAKKAYHLACKEEKLAMTREMNSKTEQSVTPEQQKQLQDKVKCKQDVQKTQEKEYE  
KVLEDVGKTPQYMENMEQVFEQCQQFEEKRLVFLKEVLLDIKRHLNLAENSSYIHVYRELEQAIRGADA  
QEDLRWFRSTSGPGMPMNWPQFEWNPDLPHTTTTKKEKQPKKAEGVALTNATGAVESTSQAGDRGSVSSY  
DRGQPYATEWSDDESNGNPFGGSETNGGANPFEDDSKGVVRALYDYDQGEQDELFSKAGDELTKLGEED  
QGWCGRGLDSGQLGLYPANYVEAI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

|                       |  |
|-----------------------|--|
| <b>Tag:</b>           | C-Myc/DDK  |
| <b>Predicted MW:</b>  | 50.8 kDa   |
| <b>Concentration:</b> | >0.05 µg/µL as determined by microplate BCA method   |
| <b>Purity:</b>        | > 80% as determined by SDS-PAGE and Coomassie blue staining  |
| <b>Buffer:</b>        | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol   |
| <b>Preparation:</b>   | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.                                     |
| <b>Note:</b>          | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| <b>Storage:</b>       | Store at -80°C.  |
| <b>Stability:</b>     | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.        |



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RefSeq: [NP\\_065855](#)

Locus ID: 29993

UniProt ID: [Q9BY11](#), [Q5TZC3](#)

RefSeq Size: 4282

Cytogenetics: 6p21.31

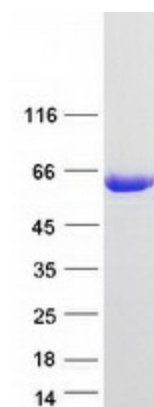
RefSeq ORF: 1332

Synonyms: SDPI

**Summary:** Plays a role in the reorganization of the microtubule cytoskeleton via its interaction with MAPT; this decreases microtubule stability and inhibits MAPT-induced microtubule polymerization. Plays a role in cellular transport processes by recruiting DNM1, DNM2 and DNM3 to membranes. Plays a role in the reorganization of the actin cytoskeleton and in neuron morphogenesis via its interaction with COBL and WASL, and by recruiting COBL to the cell cortex. Plays a role in the regulation of neurite formation, neurite branching and the regulation of neurite length. Required for normal synaptic vesicle endocytosis; this process retrieves previously released neurotransmitters to accommodate multiple cycles of neurotransmission. Required for normal excitatory and inhibitory synaptic transmission (By similarity). Binds to membranes via its F-BAR domain and mediates membrane tubulation.[UniProtKB/Swiss-Prot Function]

**Protein Families:** Druggable Genome

### Product images:



Coomassie blue staining of purified PACSIN1 protein (Cat# [TP306626]). The protein was produced from HEK293T cells transfected with PACSIN1 cDNA clone (Cat# [RC206626]) using MegaTran 2.0 (Cat# [TT210002]).