

## STK16 Protein, Human (His)

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|-------------------|--|
| Cat. No.:         | HY-P76097  |
| Synonyms:         | Serine/threonine-protein kinase 16; MPSK; TSF-1; hPSK; STK16; MPSK1; PKL12 |
| Species:          | Human  |
| Source:           | E. coli  |
| Accession:        | O75716 (M1-I305)   |
| Gene ID:          | 8576   |
| Molecular Weight: | Approximately 105 kDa  |

### PROPERTIES

|                     |  |
|---------------------|--|
| Biological Activity | The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.   |
| Appearance          | Solution.  |
| Formulation         | Supplied as a 0.2 µm filtered solution of PBS, pH 7.4.   |
| Endotoxin Level     | <1 EU/µg, determined by LAL method.  |
| Reconstitution      | N/A.   |
| Storage & Stability | Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles. |
| Shipping            | Shipping with dry ice.   |

### DESCRIPTION

#### Background

STK16 Protein, a membrane-associated kinase, exhibits phosphorylation activity on serine and threonine residues. In vitro, it phosphorylates various substrates, including DRG1, ENO1, and EIF4EBP1, indicating its potential involvement in diverse cellular processes. The protein is also known to autophosphorylate, further contributing to its regulatory functions. While its precise role in secretory vesicle trafficking or intracellular signaling remains to be fully elucidated, STK16 may play a part in modulating stromal-epithelial interactions during ductal morphogenesis in the mammary gland. Additionally, there is a suggestion of its involvement in TGF-beta signaling. Notably, STK16 demonstrates the ability to autophosphorylate on a tyrosine residue, although its significance in tyrosine-protein kinase activity toward other proteins remains unclear.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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