

## Recombinant Human PAK4 Protein, His-tagged

PAK4-766H Human

Lot. No. (See product label)

### Specification

<b>Product Overview</b>	Recombinant Human PAK4(Val299~Ser542) fused with His tag at N-terminal was expressed in E. coli.
<b>Description</b>	PAK proteins, a family of serine/threonine p21-activating kinases, include PAK1, PAK2, PAK3 and PAK4. PAK proteins are critical effectors that link Rho GTPases to cytoskeleton reorganization and nuclear signaling. They serve as targets for the small GTP binding proteins Cdc42 and Rac and have been implicated in a wide range of biological activities. PAK4 interacts specifically with the GTP-bound form of Cdc42Hs and weakly activates the JNK family of MAP kinases. PAK4 is a mediator of filopodia formation and may play a role in the reorganization of the actin cytoskeleton. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene.
<b>Source</b>	E. coli
<b>Species</b>	Human
<b>Tag</b>	His
<b>Form</b>	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
<b>Molecular Mass</b>	31.4kDa
<b>Protein length</b>	Val299~Ser542
<b>Endotoxin</b>	<1.0EU per 1µg (determined by the LAL method)
<b>Purity</b>	>95%
<b>Applications</b>	Positive Control; Immunogen; SDS-PAGE; WB. If bio-activity of the protein is needed, please check active protein.
<b>Stability</b>	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
<b>Reconstitution</b>	Reconstitute in PBS or others.

### Gene Information

**Gene Name** PAK4 p21 protein (Cdc42/Rac)-activated kinase 4 [ Homo sapiens ]

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<b>Official Symbol</b>	<a href="#">PAK4</a>
<b>Synonyms</b>	PAK4; p21 protein (Cdc42/Rac)-activated kinase 4; p21(CDKN1A) activated kinase 4; serine/threonine-protein kinase PAK 4; PAK-4; p21-activated kinase 4; p21(CDKN1A)-activated kinase 4; protein kinase related to <i>S. cerevisiae</i> STE20, effector for Cdc42Hs;
<b>Gene ID</b>	<a href="#">10298</a>
<b>mRNA Refseq</b>	<a href="#">NM_001014831</a>
<b>Protein Refseq</b>	<a href="#">NP_001014831</a>
<b>MIM</b>	<a href="#">605451</a>
<b>UniProt ID</b>	<a href="#">O96013</a>

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