

Active Recombinant Human PROK2 protein, His-GST-tagged

Cat. No. PROK2-767H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human PROK2 protein(Q9HC23)(30~128 aa), fused with N-terminal His tag and GST tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	30-128 aa
Form	Lyophilized from sterile 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Bio-activity	Prokineticin 2 (PK2) is a secreted protein belonging to the prokineticins family. It thought to be involved in several important physiological processes like neurogenesis, tissue development, angiogenesis, and nociception. Otherimportant physiological roles the Bv8/Prokineticins (PKs) are involvedinmayinclude cancer, reproduction, and regulating physiological functions that influencecircadian rhythms like hormone secretion, ingestive behaviors, and the sleep/wakecycle. Besides, Prokineticin receptor 1(PKR1) has been identified as aninteractor of PK2, thus a binding ELISA assay was conducted to detect the interaction of recombinant human PK2 and recombinant human PKR1. Briefly, PK2 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100uL were then transferred to PKR1-coated microtiter wells and incubated for 2h at 37°C. Wellswere washed with PBST and incubated for 1h with anti-PK2 pAb, then aspirated and washed 3 times. After

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incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50μ stop solution to the wells and read at 450nm immediately. The binding activity of PK2 and PKR1 was shown, and this effect was in a dose dependent manner.

Molecular Mass	41.2kDa
Purity	> 95% as determined by SDS-PAGE.
Storage	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	PROK2 prokineticin 2 [Homo sapiens]
Official Symbol	PROK2
Synonyms	PROK2; prokineticin 2; prokineticin-2; BV8; KAL4; MIT1; PK2; protein Bv8 homolog;
Gene ID	60675
mRNA Refseq	NM_001126128
Protein Refseq	NP_001119600
MIM	607002

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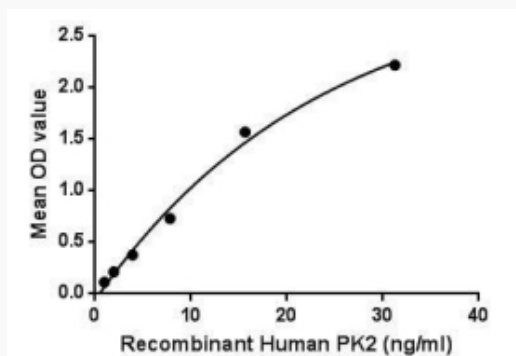
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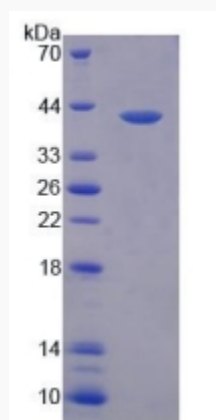
UniProt ID

Q9HC23

Activity



SDS-PAGE



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