

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	<p>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. Other important physiological roles the Bv8/Prokineticins (PKs) are involved in may include cancer, reproduction, and regulating physiological functions that influence circadian rhythms like hormone secretion, ingestive behaviors, and the sleep/wake cycle. Besides, Prokineticin receptor 1 (PKR1) has been identified as an interactor 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. Wells were washed with PBST and incubated for 1h with anti-PK2 pAb, then aspirated and washed 3 times. After</p>

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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](#)

 Tel: 1-631-559-9269 1-516-512-3133

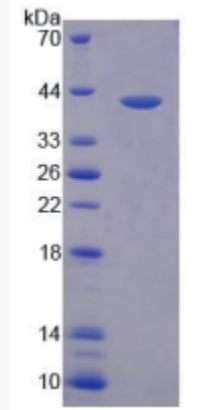
 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

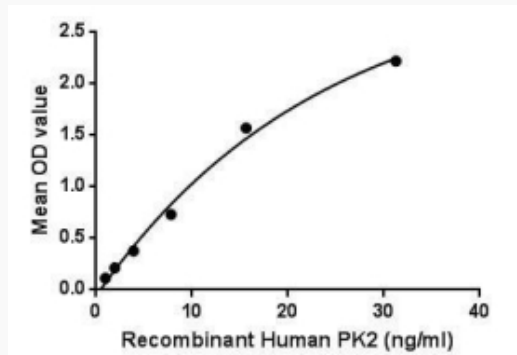
UniProt ID

Q9HC23

SDS-PAGE



Activity



 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA