Recombinant Human Prokineticin-2

Cat. No. PROK2-464H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human prokineticin-2 is an 8.8 kDa protein consisting of 81 amino acid residues and ten cysteine residues that potentially form five pairs of intra-molecular disulfide bonds. PROK2 was expressed in*E. coli*.
Species	Human
Source	E.coli
Description	Prokineticin-2 (PK2) is a cysteine-rich secreted protein that is expressed in the testis and in lower levels of the small intestine. PK2 regulates various biological functions including gastrointestinal motility, angiogenesis and circadiam rhythms. It is closely related to EG-VEGF (Prokineticin-1) and binds to two orphan B-protein-coupled receptors termed PK-R1 and PK-R2.
AA Sequence	AVITGACDKD SQCGGGMCCA VSIWVKSIRI CTPMGKLGDS CHPLTRKVPF FGRRMHHTC PCLPGLACLR TSFNRFICLA QK
Supplied	Lyophilized powder from with no additives.
Purity	>98% by SDS-Page and HPLC analysis. Endotoxin level is less than 0.1ng per ug (1EU/ug) of protein.
Reconstitution	Lyophilized material should be reconstituted in water to a concentration of 0.1-1mg/ml. Allow to set at least 30 minutes at 4°C, mix well. If desired, tighten cap and centrifuge for 1 minute at 1000rpm to concentrate material in vial. This solution can

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	be diluted into other buffered solutions or stored at 4℃for up to 1 week or at -20℃for future use. Note:If this material is not to be used for coating or labeling (or other applications requiring carrier free material), the addition of 0.1% BSA or HSA to dilution buffers or dilution in sterile culture media is recommended to enhance stability and minimize absorption to vial. Ideally, maintain stock >20ug/ml.
Storage	The lyophilized powder is stable at room temperature for a few weeks but it is best stored desiccated at -20℃. Reconstituted Prokineticin-2 should be stored in working aliquots at -20℃.

GENE INFORMATION

Gene Name	PROK2 prokineticin 2 [Homo sapiens]
Synonyms	BV8; PK2; KAL4; MIT1; PROK2; prokineticin 2; protein Bv8 homolog
Gene ID	60675
mRNA Refseq	NM_001126128
Protein Refseq	NP_001119600
MIM	146110
UniProt ID	Q9HC23
Function	G-protein-coupled receptor binding

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