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## Product Data Sheet

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Product Name: NKIRAS2 Human  
 Cat. No.: GP24046  
 Batch No.: 1

### Product Data

|                     |  |                    |                         |
|---------------------|--|--------------------|-------------------------|
| Purity              | >98%   | Source             | Escherichia Coli.       |
| Physical Appearance | solid  | Shipping Condition | Shipped with Ice Packs. |
| Synonyms            | NF-kappa-B inhibitor-interacting Ras-like protein 2; I-kappa-B-interacting Ras-like protein 2; Kappa B-Ras protein 2; KappaB-Ras2; NKIRAS2; KBRAS2.  |                    |                         |
| Amino Acid Sequence | MGSSHHHHHH SGLVPRGSH MGS HMGK SCK VVCGQASVG KTSILEQLLY<br>GNHVVGSEMI ETQEDIYVGS IETDRGVREQ VRFYDTRGLR DGAELPRHCF<br>SCTDGYVLVY STDSRESFQR VELLKKEIDK SKDKKEVTIV VLGNKCDLQE<br>QRRVDPDVAQ HWAKSEKVKL WEVSVADRRSLLEPFVYLAS KMTQPQSKSA<br>FPLSRKNKGS GSLDG. |                    |                         |
| Formulation         | NKIRAS2 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 10% glycerol and 0.1M NaCl.   |                    |                         |

### Introduction

NFKB inhibitor interacting Ras-like 2 (NKIRAS2) is an inhibitor of the transcription factor NF-kappaB. NKIRAS2 is similar to the Ras-like small GTPases which associate with I kappa B. The Ras-like proteins- NKIRAS1 and NKIRAS2, interact with the PEST domains of I kappa B and reduce their rate of degradation. NKIRAS2 is an atypical Ras-like protein which functions as a potent regulator of NF-kappa-B activity by preventing the degradation of NF-kappa-B inhibitor beta (NFKBIB) by most signals, explaining why NFKBIB is more impervious to degradation.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

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

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NKIRAS2 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 215 amino acids (1-191 a.a) and having a molecular mass of 24kDa. NKIRAS2 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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