

## Kras4B Protein, Human (G12V, His)

<b>Cat. No.:</b>	HY-P70234
<b>Synonyms:</b>	rHuGTPase Kras4B-G12V, His; Ki-Ras; c-K-ras; KRAS2; RASK2; CFC2
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Accession:</b>	P01116-2 (M1-K169, G12V)
<b>Gene ID:</b>	3845
<b>Molecular Weight:</b>	Approximately 24.0 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>M T E Y K L V V V G    A V G V G K S A L T    I Q L I Q N H F V D    E Y D P T I E D S Y</p> <p>R K Q V V I D G E T    C L L D I L D T A G    Q E E Y S A M R D Q    Y M R T G E G F L C</p> <p>V F A I N N T K S F    E D I H H Y R E Q I    K R V K D S E D V P    M V L V G N K C D L</p> <p>P S R T V D T K Q A    Q D L A R S Y G I P    F I E T S A K T R Q    G V D D A F Y T L V</p> <p>R E I R K H K E K</p>
<b>Biological Activity</b>	Measured by its ability to catalyze the substrate GTP. The specific activity is 2.57 nmol/min/mg, as measured under the described conditions.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years from date of receipt. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	The Kras4B protein establishes a specific interaction with GPR31, and this binding is contingent on farnesylation. This interaction underscores the potential regulatory role of Kras4B in conjunction with GPR31, suggesting a dependence on the farnesylation process. Further exploration into the molecular intricacies of this interaction is essential to unravel the precise mechanisms and functional implications associated with the interplay between Kras4B and GPR31 in cellular processes or
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signaling pathways.

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

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