

## KRAS Active Protein

KRAS (Mature form), Active

CATALOG #  
**AAA73183**

HOST  
**E Coli**

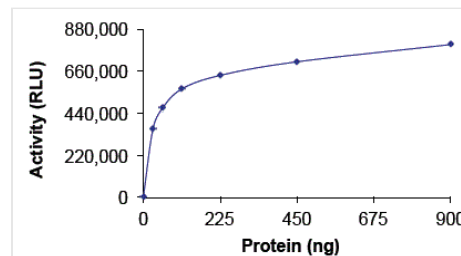
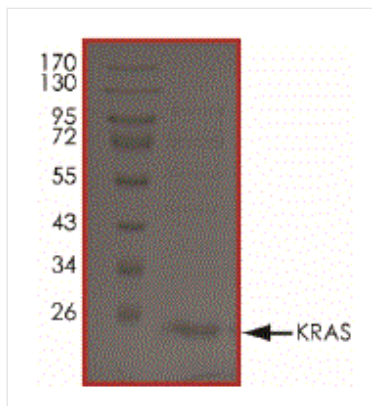
### PRODUCT SYNONYMS

KRAS; KRAS (Mature form); Active; KRAS active protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | E Coli                                                                                                                                                                                                                                         |
| Purity/Purification     | >90%                                                                                                                                                                                                                                           |
| Form/Format             | Recombinant protein stored in 50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol.                                                                                                                |
| Concentration           | 0.1 ug/ul (varies by lot)                                                                                                                                                                                                                      |
| Specific Activity       | 3 nmol/min/mg                                                                                                                                                                                                                                  |
| Dry Ice Note            | The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.                                                                                                                                             |
| Preparation and Storage | Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles. |

### IMAGES



#### Specific Activity

The specific activity of KRAS was determined to be 3 nmol/min/mg as per activity assay protocol.

#### SDS-PAGE

The purity of KRAS was determined to be >90% by densitometry. Approx. MW 23kDa.

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| Related Product Information for KRAS active protein | <p>Recombinant human KRAS (2-186) was expressed in E.coli cells using an N-terminal His tag. The gene accession number is NM_033360.</p> <p>The RAS gene superfamily encodes a group of closely related 21,000 dalton (p21) proteins with special affinity for guanine nucleotides (GTP). RAS and several other cellular proteins with similar biochemical properties are collectively known as G-proteins and they play key roles in a wide variety of cellular activities, including cell growth, differentiation, secretion, and protein trafficking (1). There are three forms of RAS gene in cells termed H-RAS, N-RAS, and K-RAS. RAS proteins play a direct causal role in human cancer and in other diseases. Mutant H-RAS, N-RAS, and K-RAS occur in varying frequencies in different tumor types (2). Other members of the RAS superfamily may also contribute to cancer.</p> |
| Product Categories/Family for KRAS active protein   | Angiogenesis; Apoptosis/Autophagy; Cancer; Cardiovascular Disease; ERK/MAPK Pathway; Inflammation; Neurobiology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| References                                          | <p>1.Shih, T. Y., et al: Structure and function of p21 ras proteins. Gene Amplif Anal. 1986;4:53-72.</p> <p>2.Rodriguez-Viciana, P.: Cancer targets in the Ras pathway. Cold Spring Harb Symp Quant Biol. 2005;70:461-7.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

NCBI AND UNIPROT INFORMATION

|                           |           |
|---------------------------|-----------|
| NCBI GenBank Nucleotide # | NM_033360 |
|---------------------------|-----------|

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/kras/73183>