

## Recombinant Chicken Ski Oncogene (SKI)

**Cat. No.:** AP4C651

**Product Type:** Animal Proteins

**Size:** 10 µg; 50 µg; 200 µg; 1 mg; 5 mg

### Product Overview

BioVenic's Recombinant Chicken Ski Oncogene (SKI) is a recombinant protein expressed from *E.coli*. Its predicted molecular weight is 84.3 kDa. The purity is >85% (SDS-PAGE).

### Specifications

|                            |                                         |
|----------------------------|-----------------------------------------|
| Type                       | Recombinant Protein                     |
| Species                    | Chicken                                 |
| Expression System          | <i>E.coli</i>                           |
| Purity                     | >85% (SDS-PAGE)                         |
| Predicted Molecular Weight | 84.3 kDa                                |
| Physical State             | Lyophilized                             |
| Formulation                | Tris/PBS-based buffer, 5%-50% glycerol. |

### Target Information

Chicken Ski Oncogene (SKI) is a transcriptional regulator that plays a significant role in embryonic development and cellular differentiation. Initially identified as a viral oncogene (v-Ski) from the avian Sloan-Kettering retrovirus (SKV) that transforms chicken embryo fibroblasts, the cellular homolog c-Ski was later cloned and found to encode a nuclear protein of 728 amino acids. Overexpression of c-Ski results in oncogenic transformation of chicken and quail embryo fibroblasts. In addition to its oncogenic properties, c-Ski is involved in the regulation of muscle differentiation. Elevated levels of c-Ski have been detected in various human tumor cell lines, including those derived from neuroblastoma, melanoma, and prostate cancer. c-Ski can interact with Smad proteins to repress TGF-β signaling, which is crucial for its oncogenic activity. This interaction allows c-Ski to inhibit TGF-β-induced growth arrest and promote cell proliferation. In chickens, c-Ski is essential for proper muscle and neuronal differentiation.

|                 |                            |
|-----------------|----------------------------|
| Protein         | Chicken Ski Oncogene (SKI) |
| Protein Synonym | Proto-oncogene c-Ski; SKI  |
| Gene ID         | <a href="#">428181</a>     |
| EC No.          | <a href="#">P49140</a>     |

## Shipping and Storage

This product is shipped with ice packs. Lyophilized protein can be stored at -80°C for 1 year. After reconstitution, the protein solution can be stored at 2-8°C for 2-7 days.

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## User Note

Always centrifuge tubes before opening. Avoid mixing by vortexing or pipetting. Reconstitute in deionized sterile water to a concentration of 0.1-1.0 mg/mL. Aliquot the reconstituted solution to minimize freeze-thaw cycles.

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The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.