

Recombinant Rat Stat3 Protein, His-tagged

Cat. No. Stat3-2107R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Stat3 Protein (Gly656-Ser768) with N-His tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	Gly656-Ser768
Description	Enables CCR5 chemokine receptor binding activity; glucocorticoid receptor binding activity; and sequence-specific DNA binding activity. Involved in several processes, including positive regulation of growth factor dependent skeletal muscle satellite cell proliferation; positive regulation of interleukin-6 production; and regulation of cellular biosynthetic process. Acts upstream of or within cellular response to cytokine stimulus and cellular response to organic cyclic compound. Located in mitochondrial inner membrane and nucleus. Is active in Schaffer collateral - CA1 synapse; glutamatergic synapse; and postsynaptic density. Used to study several diseases, including duodenal ulcer; hyperuricemia; non-alcoholic fatty liver disease; obesity; and transient cerebral ischemia. Biomarker of colon cancer; colorectal carcinoma; heart disease; and pre-malignant neoplasm. Human ortholog(s) of this gene implicated in several diseases, including autoimmune disease (multiple); carcinoma (multiple); hyper IgE recurrent infection syndrome 1; reproductive organ cancer (multiple); and type 2 diabetes mellitus. Orthologous to human STAT3 (signal transducer and activator of transcription 3).

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Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 44.7 kDa
Purity	> 95%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	Stat3 signal transducer and activator of transcription 3 (acute-phase response factor) [Rattus norvegicus (Norway rat)]
Official Symbol	Stat3
Synonyms	STAT3; signal transducer and activator of transcription 3 (acute-phase response factor); signal transducer and activator of transcription 3; MGC93551;
Gene ID	25125

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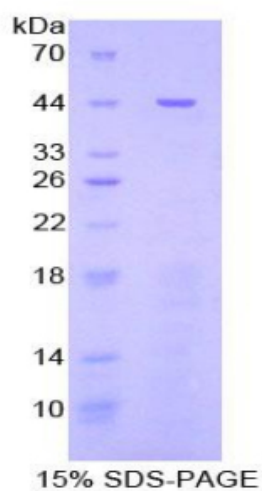
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mRNA Refseq NM_012747

Protein Refseq NP_036879

UniProt ID P52631



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