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Datasheet for ABIN1692021
STAT3 Protein (AA 1-175) (His tag)

Overview

Quantity:	50 µg
Target:	STAT3
Protein Characteristics:	AA 1-175
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This STAT3 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Signal Transducer and Activator of Transcription 3/STAT3 (C-6His)
Sequence:	MAQWNQLQQL DTRYLEQLHQ LYSDSFPMEL RQFLAPWIES QDWAYAASKE SHATLVFHNL LGEIDQQYSR FLQESNVLYQ HNLRRIKQFL QSRYLEKPM E IARIVARCLW EESRLLQTAA TAAQQGGQAN HPTAAVTEK QQMLEQLHQD VRKRVQDLEQ KMKVVENLQD DFDFNLEHHH HHH
Characteristics:	Recombinant Human Signal Transducer and Activator of Transcription 3/STAT3 (C-6His)
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	STAT3
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Target Details

Alternative Name:	Signal Transducer and Activator of Transcription 3/STAT3 (STAT3 Products)
Background:	<p>Recombinant Human Signal Transducer and Activator of Transcription 3/STAT3 is produced with our E. coli expression system. The target protein is expressed with sequence (Met1-Asn175) of Human STAT3 fused with a 6His tag at the C-terminus.</p> <p>Signal Transducer and Activator of Transcription 3 (STAT3) belongs to the transcription factor STAT family. STAT3 contains one SH2 domain and is a transcription factor expressed in most cell types. STAT3 is activated by multiple cytokines and growth factors including: IFN-α, IL-10, IL-6, IL-11, IL-12, IL-2, EGF etc. STAT3 functions as signal transducer and transcription activator that mediates cellular responses to interleukins, KITLG/SCF and other growth factors. In addition, STAT3 may also mediate cellular responses to activated FGFR1, FGFR2, FGFR3 and FGFR4.</p>
Molecular Weight:	21.8 kDa
UniProt:	P40763
Pathways:	JAK-STAT Signaling , RTK Signaling , Interferon-gamma Pathway , Neurotrophin Signaling Pathway , Dopaminergic Neurogenesis , Response to Growth Hormone Stimulus , Carbohydrate Homeostasis , Stem Cell Maintenance , Hepatitis C , Protein targeting to Nucleus , Feeding Behaviour , CXCR4-mediated Signaling Events , Signaling of Hepatocyte Growth Factor Receptor

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 μg/mL.</p> <p>Dissolve the lyophilized protein in ddH₂O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Lyophilized from a 0.2 μ m filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	<p>Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at 4-7°C for 2-7 days.</p> <p>Aliquots of reconstituted samples are stable at < -20°C for 3 months.</p>