

## Product datasheet

# Recombinant human GSK3 alpha protein ab42597

### Overview

---

<b>Product name</b>	Recombinant human GSK3 alpha protein
<b>Protein length</b>	Full length protein

### Description

---

<b>Nature</b>	Recombinant
<b>Source</b>	Baculovirus infected Sf9 cells

### Amino Acid Sequence

<b>Species</b>	Human
<b>Tags</b>	GST tag N-Terminus

### Specifications

---

Our [Abpromise guarantee](#) covers the use of **ab42597** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Biological activity</b>	700 U/mg. One unit is defined as the amount of enzyme that will phosphorylate 1 nmol of glycogen synthase peptide 2 substrate per minute at pH 7.4 and 30C. Assay buffer: 50 mM HEPES, pH 7.4, 3 mM MgCl <sub>2</sub> , 3 mM MnCl <sub>2</sub> , 1 mM DTT, 3uM Na-orthovanadate, 0.1 mM ATP, 20 uM substrate, and 0.1 ug recombinant GSK3 alpha.
----------------------------	--

<b>Applications</b>	Functional Studies
---------------------	--------------------

<b>Form</b>	Liquid
-------------	--------

<b>Additional notes</b>	Expressed in a Baculovirus infected Sf9 cell expression system.
-------------------------	---

### Preparation and Storage

---

<b>Stability and Storage</b>	Shipped on Dry Ice. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituents: 0.307% Glutathione, 0.0462% DTT, 0.395% Tris HCl, 0.05% Tween, 50% Glycerol, 0.58% Sodium chloride  This product is an active protein and may elicit a biological response in vivo, handle with caution.
------------------------------	---

## General Info

---

<b>Function</b>	Implicated in the hormonal control of several regulatory proteins including glycogen synthase, MYB and the transcription factor JUN.
<b>Sequence similarities</b>	Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. GSK-3 subfamily. Contains 1 protein kinase domain.

---

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

## Our Abpromise to you: Quality guaranteed and expert technical support

---

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
  
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

## Terms and conditions

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors