

Recombinant GST-alpha Spectrin

Cat. No. GST-52 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fusion protein: Glutathione-S-Transferase (GST) and a fragment of human α -spectrin (from Lysine 1601 to Leucine 1818) containing repeat 17 and the ubiquitination target lysine 27. The total molecular weight of the fusion protein is 52.4 kDa.
Source	E.coli
Description	Erythrocyte spectrin is the main component of the red cell membrane skeleton responsible for the shape and physical properties of red cells. Spectrin is composed of 2 subunits and (280 and 246 kDa respectively). The human erithroid α -spectrin (2418 amino acids) consists of 22 repeating segments of about 106 amino acids in length. This protein was demonstrated to be a specific substrate for ubiquitination in vitro and in vivo. The main ubiquitination site on human α -spectrin was identified in the lysine 27 of the repeating segment 17 by sitedirected mutagenesis. Cell-free experiments using radiolabeled, biotinylated or native ubiquitin and cellular lysates from rabbit reticulocytes, human erythrocytes or k562 cells, showed that only monoubiquitination occurs at this site.
Physical Appearance	Sterile Filtered clear solution.
Purity	Greater than 90.0% as determined by both: (a) Analysis by RP-HPLC. (b) Analysis by reducing and non-reducing SDS-PAGE Silver Stained gel
Formulation	The protein (1.7mg/ml) contains 50mM Tris buffer pH-8 and 10mM glutathione.

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Application	Substrate for cell-free ubiquitination assays.
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Storage	rGST-alpha Spectrin although stable at 14°C for 1 week, should be stored desiccated below -18°C. Please prevent freeze-thaw cycles.
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GENE INFORMATION

Synonyms	GST-a Spectrin; GST-alpha Spectrin.
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