

Recombinant Human GLI1 protein, GST-tagged

Cat. No. GLI1-158H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GLI1(800 - 849 aa) fused with GST tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	800-849 a.a.
Description	This gene encodes a member of the Kruppel family of zinc finger proteins. The encoded transcription factor is activated by the sonic hedgehog signal transduction cascade and regulates stem cell proliferation. The activity and nuclear localization of this protein is negatively regulated by p53 in an inhibitory loop. Multiple transcript variants encoding different isoforms have been found for this gene.
Form	Protein lyophilized in sterile PBS (58 mM Na ₂ HPO ₄ , 17 mM NaH ₂ PO ₄ , 68 mM NaCl, 100 mM GSH, pH 8.0). Trehalose (5-8%) and mannitol (5-8%) protectants were added before lyophilization.
AA Sequence	YSQCPRLEHYGQVQVKPEQGCPVGS DSTGLAPCLNAHPSEGPPHPQPLFS
Purity	> 95%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Storage	Store for up to 12 months at -20 centigrade to -80 centigrade as lyophilized powder.Storage of Reconstituted Protein:Short-term storage: Store at 2-8 centigrade

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

for two weeks. Long-term storage: Aliquot and store at -20 centigrade to -80 centigrade for up to 6 months, buffer containing 50% glycerol is recommended for reconstitution. Avoid repeat freeze-thaw cycles.

Reconstitution

Reconstitute at 0.25 g/μl in 200 μl sterile water for short-term storage. Reconstitution with 200 μl 50% glycerol solution is recommended for longer term storage. If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.

GENE INFORMATION

Gene Name GLI1 GLI family zinc finger 1 [Homo sapiens]

Official Symbol GLI1

Synonyms GLI1; GLI family zinc finger 1; GLI, glioma associated oncogene family zinc finger 1, glioma associated oncogene homolog 1 (zinc finger protein); zinc finger protein GLI1; oncogene GLI; glioma-associated oncogene 1; glioma-associated oncogene homolog 1 (zinc finger protein); GLI;

Gene ID 2735

mRNA Refseq NM_001160045

Protein Refseq NP_001153517

MIM 165220

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UniProt ID	P08151
Chromosome Location	12q13.2-q13.3
Pathway	Basal cell carcinoma, organism-specific biosystem; Basal cell carcinoma, conserved biosystem; Hedgehog Signaling Pathway, organism-specific biosystem; Hedgehog signaling events mediated by Gli proteins, organism-specific biosystem; Hedgehog signaling pathway, organism-specific biosystem; Hedgehog signaling pathway, conserved biosystem; Pathways in cancer, organism-specific biosystem;
Function	DNA binding; metal ion binding; protein binding; transcription regulatory region DNA binding; zinc ion binding;