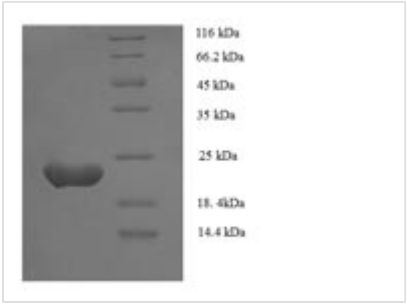
Recombinant Human Zinc finger protein GLI1 (GLI1), partial

Product Code	CSB-EP009499HU
Relevance	Acts as a transcriptional activator. May regulate the transcription of specific genes during normal development. May play a role in craniofacial development and digital development, as well as development of the central nervous syst and gastrointestinal tract. Mediates SHH signaling and thus cell proliferation and differentiation.
Abbreviation	Recombinant Human GLI1 protein, partial
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P08151
Alias	Glioma-associated oncogeneOncogene GLI
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	QEPSYQSPKFLGGSQVSPSRAKAPVNTYGPGFGPNLPNHKSGSYPTPSPCHENFVVGANRASHRAAAPPRLLPPLPTCYGPLKVGGTNPSCGHPEVGRLGGGPALYPPPEGQVCNPLDSLDLDNTQLDFVAILDEPQGLSPPPSHDQRGSSGHTPPPSGPPNMAVGNMSVLLRSLPGETEFLNSSA
Research Area	Developmental Biology
Source	E.coli
Target Names	GLI1
Expression Region	921-1106aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	23.3kDa
Protein Length	Partial
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

Amino acids 921-1106 form the expressed segment for recombinant Human GLI1. The expected molecular weight for the GLI1 protein is calculated to be 23.3 kDa. Expression of this GLI1 protein is conducted in e.coli. The N-terminal 6xHis tag was fused into the coding gene segment of GLI1, making it easier to detect and purify the GLI1 recombinant protein in the later stages of expression and purification.

The human Zinc finger protein GLI1 is a transcription factor and a key mediator of the Hedgehog signaling pathway. GLI1 plays a critical role in various developmental processes and cell fate determination. GLI1 contains zinc finger DNA-binding domains and acts downstream of Hedgehog ligands. When the Hedgehog pathway is activated, GLI1 translocates to the nucleus, where it regulates the expression of target genes involved in cell proliferation, differentiation, and survival. Dysregulation of GLI1 is associated with various cancers, making it a potential target for cancer therapeutics. Research on Zinc finger protein GLI1 focuses on understanding its precise roles in development, tissue homeostasis, and its implications in cancer progression.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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