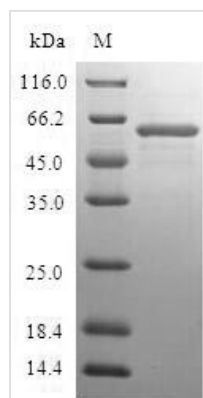




Recombinant Human Fructose-1,6-bisphosphatase 1 (FBP1)

Product Code	CSB-EP008459HU(A4)
Relevance	Catalyzes the hydrolysis of fructose 1,6-bisphosphate to fructose 6-phosphate in the presence of divalent cations, acting as a rate-limiting enzyme in gluconeogenesis. Plays a role in regulating glucose sensing and insulin secretion of pancreatic beta-cells. Appears to modulate glycerol gluconeogenesis in liver. Important regulator of appetite and adiposity; increased expression of the protein in liver after nutrient excess increases circulating satiety hormones and reduces appetite-stimulating neuropeptides and thus seems to provide a feedback mechanism to limit weight gain.
Abbreviation	Recombinant Human FBP1 protein
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.	P09467
Product Type	Recombinant Proteins
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MADQAPFDTDVNTLTRFVMEEGRKARGTGELTQLLNSLCTAVKAISSAVRKAG IAHLYGIAGSTNVTGDQVKKLDVLSNDLVMNMLKSSFATCVLVSEEDKHAIIVP EKRKGYVVCFDPLDGSSNIDCLVSVGTIFGIYRKKSTDEPSEKDALQPGRNLVA AGYALYGSATMLVLAMDCGVNCFMLDPAIGEFILVDKDKIKKKGKIYSLNEG YARDFDPAVTEYIQRKKFPPDNSAPYGARYVGSVMADVHRRTLVIYGGIFLYPANK KSPNGKLRLLYECNPMAYVMEKAGGMATTGKEAVLDVIPTDIHQRAPVILGSP DDVLEFLKVYEKHSQAQ
Research Area	Epigenetics and Nuclear Signaling
Source	E.coli
Target Names	FBP1
Expression Region	1-338aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal GST-tagged
Mol. Weight	63.7kDa
Protein Length	Full Length
Image	



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

Description

The recombinant human Fructose-1,6-bisphosphatase 1 (FBP1) is expressed in *E. coli*, covering the full-length human FBP1 protein sequence (1-338aa). It carries an N-terminal GST tag for efficient purification and exhibits a purity level greater than 90% as determined by SDS-PAGE. This recombinant human FBP1 protein finds applications in the fields of epigenetics and nuclear signaling, where it can be utilized to study glucose metabolism, histone modifications, chromatin structure, and nuclear signaling pathways. Researchers can use this recombinant human FBP1 protein to investigate the enzymatic activity, protein-protein interactions, and functional consequences of FBP1 in cellular processes.

Shelf Life

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.