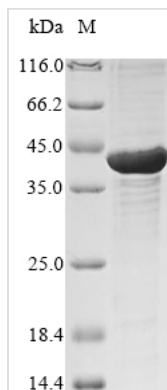




Recombinant Human Left-right determination factor 2 (LEFTY2)

Product Code	CSB-EP012858HU
Abbreviation	Recombinant Human LEFTY2 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.	O00292
Storage Buffer	Tris-based buffer,50% glycerol
Product Type	Recombinant Proteins
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	RFSQSFREVAGRFLASEASTHLLVFGMEQRLPPNSELVQAVLRLFQEPVPKAA LHRHGRLSPRSAQARVTVEWLRVRDDGSNRTSLIDSRLVSVHESGWKAFDVT EAVNFWQQLSRPRQPLLLQVSVQREHLGPLASGAHKLVRFASQGAPAGLGEP QLELHTLDLRDYGAQGDCDPEAPMTEGTRCCRQEMYIDLQGMKWAKNWWLE PPGFLAYECVGTCCQPPEALAFNWPFLGPRQCIASETASLPMIVSIKEGGRTR PQVVSLPNMRVQKCSCASDGALVPRRLQP
Research Area	Cancer
Source	E.coli
Target Names	LEFTY2
Protein Names	Recommended name: Left-right determination factor 2 Alternative name(s): Endometrial bleeding-associated factor Left-right determination factor A Protein lefty-2 Protein lefty-A Transforming growth factor beta-4 Short name=
Expression Region	77-366aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-tagged and C-terminal Myc-tagged
Mol. Weight	39.8 kDa
Protein Length	Full Length of Mature Protein
Image	



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

Description

Inserting the gene encoding the Human LEFTY2 protein (77-366aa) into a plasmid vector results in the creation of recombinant plasmid, which is introduced into e.coli cells. e.coli cells that can survive in the presence of a specific antibiotic are selected, indicating successful uptake of the recombinant plasmid. The e.coli cells containing the recombinant plasmid are cultured under conditions promoting the expression of the gene of interest. A N-terminal 10xHis tag and C-terminal Myc tag is linked to the protein. After expression, affinity purification is used to isolate and purify the recombinant Human LEFTY2 protein from the cell lysate. Denaturing SDS-PAGE is then applied to resolve the resulting recombinant Human LEFTY2 protein, revealing a purity level exceeding 85%.

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.