

Recombinant Full Length Human INF2 Protein, GST-tagged

Cat. No. INF2-5871HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human INF2 full-length ORF (ENSP00000344000, 1 a.a. - 337 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	337 amino acids
Description	Actin filaments grow only when actin monomers have access to the fast-growing barbed end of the filament. The geometry of the filament network depends on the actions of the ARP2/3 complex (MIM 604221) and members of the formin family, such as INF2. The ARP2/3 complex binds to the sides of preexisting filaments and nucleates filaments whose barbed ends are quickly blocked by capping proteins, producing brush-like structures, such as those found at the leading edges of crawling cells. In contrast, formins bind to the barbed ends of growing filaments and protect them from capping, creating long filaments that can be cross-linked into bundles, such as those found in actin cables of yeast. Interaction of formins with actin barbed ends occurs through the formin homology-2 (FH2) domain. FH2 domains accelerate filament nucleation, move with the barbed end as the filament grows, and block capping of the barbed end by proteins such as gelsolin (GSN; MIM 137350). The FH1 domain of formins binds to profilin (see MIM 176610) and accelerates elongation from the FH2-bound barbed ends (Bindschadler and McGrath, 2004 [PubMed 15466701]; Chhabra and Higgs, 2006 [PubMed 16818491]).[supplied by OMIM

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Molecular Mass	62.4 kDa
AA Sequence	MKAFRDLFLRALKENKDRKEQAAKAERRKQQLAEEEEARRPRGEDGKPVRKGPGKQ EEVCVIDALLADIRKGFQLRKTARGRGDTDGGSKAASMDPPRATEPVATSNPAGDP VGSTRCPASEPGLDATTASESRGWDLVDAVTPGPQPTLEQLEEGGPRPLERRSSW YVDASDVLTTEDPQCPQPLEGAWPVTLGDAQALKPLKFSSNQPPAAGSSRQDAKD PTSLLGVLQAEADSTSEGLEDAVHSRGARPPAAGPGGDEDEDEEDTAPESALDTSL DKSFSEDAVTDSSSGSGLPRARGRASKGTGKRRKKRPSRSQEEVPPDSDDNKTKK LCVIQ
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
GENE INFORMATION	
Gene Name	INF2 inverted formin, FH2 and WH2 domain containing [Homo sapiens (human)]
Official Symbol	INF2
Synonyms	INF2; inverted formin, FH2 and WH2 domain containing; FSGS5; CMTDIE; pp9484; C14orf151; C14orf173; inverted formin-2; HBEAG-binding protein 2 binding protein C; HBEBP2-binding protein C

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Gene ID	64423
mRNA Refseq	NM_001031714
Protein Refseq	NP_001026884
MIM	610982
UniProt ID	Q27J81

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