

Active Recombinant Human Ficolin (collagen/fibrinogen domain containing lectin) 2 (hucolin), His-tagged

Cat. No. FCN2-494H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FCN2 is expressed in Murine myeloma cell line, which has a molecule weight of 32.8kDa. Leu26 Ala313, with a Cterminal 10His tag.
Species	Human
Source	Mammalian Cells
Description	Human Ficolin2 (fibrinogen/collagenlike; previously called Lficolin or ficolinB) is a member of the ficolin family of secreted pattern recognition proteins that participate in the lectin complement activation pathway. Ficolin2 is expressed in the liver and released into the circulation. The 35 40 kDa, 313 amino acid (aa) human Ficolin2 contains a 25aa signal sequence, an Nterminal collagen domain and a Cterminal fibrinogenlike domain that includes a calcium binding site and two potential N-glycosylation sites. The collagen domain mediates trimer formation. Larger homomultimers are formed by disulfide links at the Nterminus, the most prominent of which is a 12 subunit oligomer. Ficolin2 binds microbial ligands that contain acetylated compounds. Mature human Ficolin2 shares 70%, 72%, 76% and 78% aa identity with mouse, rat, cow and pig Ficolin2, respectively. It shares 84% and 52% aa identity with human ficolin1 and ficolin3, respectively. Single nucleotide polymorphisms are common in human Ficolin2. Some affect serum concentration, while others can increase or decrease ligand binding.
Form	Lyophilized from a 0.2µm filtered solution in PBS.

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N-terminal Sequence	Leu26
Molecular Weight	32.8 kDa
Activity	Measured by its ability to bind biotinylated NAcetylglucosaminePolyacrylamide in a functional ELISA.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
Reconstitution	Reconstitute at 100 µg/mL in PBS.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 3 months, -20 to -70 °C under sterile conditions after reconstitution.
Official Symbol	FCN2

GENE INFORMATION

Gene Name	FCN2 ficolin (collagen/fibrinogen domain containing lectin) 2 (hucolin) [Homo sapiens]
Synonyms	FCN2; ficolin (collagen/fibrinogen domain containing lectin) 2 (hucolin); P35; FCNL; EBP-37; ficolin-2; L-ficolin; ficolin B; ficolin-B; ficolin-beta; serum lectin p35; Hucolin; 37 kDa elastin-binding protein; collagen/fibrinogen domain-containing protein 2; OTTHUMP00000022518
Gene ID	2220

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mRNA Refseq	NM_004108
Protein Refseq	NP_004099
MIM	601624
UniProt ID	Q15485
Chromosome Location	9q34.3
Function	antigen binding; calciumion binding; calcium-dependent protein binding; receptor binding; sugar binding
PDB rendering based on2j0g.	