

## Ficolin 1/FCN1 Protein, Mouse, Recombinant (His)

### General Information

Synonyms:	Fcna;Collagen/fibrinogen domain-containing protein 1;M-ficolin;Fcn1;Ficolin-alpha;Ficolin-1;Ficolin-A
Protein Construction:	18-334 aa
Species:	Mouse
Expression Host:	E. coli
Accession:	O70165
Molecular Weight:	38.5 kDa (predicted)
AA Sequence:	SQALGQERGACPDVKVVGLGAQDKVVVIQSCPGFPGPPGPKGEPGSPAGRGERGFQSPGKMGPAAGSKGE PGTMGPPGVKGEKGDGTAAPSLGEKELGDTLCQRGPRCKDLLTRGIFLTGWYTIHLPDCRPLTVLCDMDVD GGGWTVFQRRVDGSIDFFRDWDSYKRFGNLTGFVLGNDYLHLLTANGNQELRVDLQDFQGKGSYAKYS SFQVSEEQEKYKLTGQFLEGTAGDSLTKHNNMSFTTHDQDNDANSMNCAALFHGAWWYHNCHQSNLNG RYLSGSHEASYADGINWGTGQGHHSYKVAEMKIRAS

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

## A DRUG SCREENING EXPERT

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Extracellular lectin functioning as a pattern-recognition receptor in innate immunity. Binds the sugar moieties of pathogen-associated molecular patterns (PAMPs) displayed on microbes and activates the lectin pathway of the complement system. May also activate monocytes through a G protein-coupled receptor, FFAR2, inducing the secretion of interleukin-8/IL-8. Binds preferentially to 9-O-acetylated 2-6-linked sialic acid derivatives and to various glycans containing sialic acid engaged in a 2-3 linkage.

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