

## LRRFIP1 Protein, Human (His, Strep)

Cat. No.:	HY-P702001
Synonyms:	LRRFIP1; Leucine-rich repeat flightless-interacting protein 1; LRR FLII-interacting protein 1; GC-binding factor 2; TAR RNA-interacting protein
Species:	Human
Source:	E. coli
Accession:	Q32MZ4 (M1-S808)
Gene ID:	9208
Molecular Weight:	

### PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

### DESCRIPTION

Background	LRRFIP1, functioning as a transcriptional repressor, exhibits a preference for binding to the GC-rich consensus sequence (5'-AGCCCCGGCG-3') and is implicated in the potential regulation of TNF, EGFR, and PDGFA expression. This regulatory role extends to the control of smooth muscle cell proliferation following artery injury, achieved through the repression of PDGFA. Furthermore, LRRFIP1 demonstrates the capacity to bind double-stranded RNA. It plays a positive role in Toll-like receptor (TLR) signaling in response to agonists, likely by competitively interacting with the negative FLII regulator for MYD88-binding. Existing as a homodimer, LRRFIP1 may also form higher-order oligomers, and it interacts with FLII and MYD88, competing with FLII for MyD88-binding, even in the absence of lipopolysaccharide (LPS).
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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