

Recombinant RIGI protein

Catalog No: 82147, 82747

Expressed In: Baculovirus

Quantity: 20, 1000 µg

Source: Human

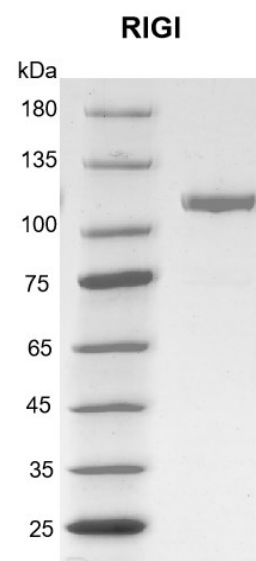
Buffer Contents: Recombinant RIGI protein is supplied in 25 mM HEPES pH 7.5, 300 mM NaCl, 20% glycerol, 0.04% Triton X-100, 0.5 mM TCEP.

Background: **RIGI (Antiviral innate immune response receptor RIG-I)** is a crucial cytosolic pattern recognition receptor (PRR) that acts as a primary sensor of viral RNA in the innate immune system. It specifically recognizes short double stranded RNA (dsRNA) and single-stranded RNA with 5'-triphosphate (5'-ppp RNA) ends, which are characteristic of many viral genomes. Upon ligand binding, RIG-I undergoes a conformational change and activates the mitochondrial antiviral-signaling (MAVS) protein, triggering a downstream signaling cascade that leads to the robust production of type I interferons (IFN- α/β) and pro-inflammatory cytokines. This response is essential for establishing an antiviral state in infected and neighboring cells. Dysregulation of RIG-I signaling is associated with autoimmune disorders, chronic inflammation, and inadequate responses to viral infections.

Protein Details: Recombinant RIGI protein was expressed in a baculovirus expression system as the full length protein (accession number NP_055129.2) with an N-terminal FLAG tag. The molecular weight of RIGI is 107.87 kDa.

Application Notes: This product was manufactured as described in Protein Details. Where possible, Active Motif has developed functional or activity assays for recombinant proteins. Additional characterization such as enzyme kinetic activity assays, inhibitor screening or other biological activity assays may not have been performed for every product. All available data for this product is shown.

Storage and Guarantee: Recombinant proteins in solution are temperature sensitive and must be stored at -80°C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. This product is for research use only and is not for use in diagnostic procedures. This product is guaranteed for 6 months from date of arrival.



Recombinant RIGI protein gel
4-20% SDS-PAGE gel
MW: 107.87 kDa
Purity: >95%