

Recombinant Mouse Spire2 Protein, Myc/DDK-tagged

Cat. No. Spire2-6101M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length spire type actin nucleation factor 2 (Spire2), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Acts as an actin nucleation factor, remains associated with the slow-growing pointed end of the new filament. Involved in intracellular vesicle transport along actin fibers, providing a novel link between actin cytoskeleton dynamics and intracellular transport. Required for asymmetric spindle positioning and asymmetric cell division during oocyte meiosis. Required for normal formation of the cleavage furrow and for polar body extrusion during female germ cell meiosis. Also acts in the nucleus: together with SPIRE1 and SPIRE2, promotes assembly of nuclear actin filaments in response to DNA damage in order to facilitate movement of chromatin and repair factors after DNA damage.
Molecular Mass	80.2 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.

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Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name Spire2 spire type actin nucleation factor 2 [Mus musculus (house mouse)]

Official Symbol [Spire2](#)

Synonyms SPIRE2; spire homolog 2 (Drosophila); protein spire homolog 2; Spir2; Spir-2; BC026502; KIAA1832; MGC31610

Gene ID [234857](#)

mRNA Refseq [NM_172287](#)

Protein Refseq [NP_758491](#)

UniProt ID [Q8K1S6](#)

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