

Recombinant Mouse Fgd1 Protein, Myc/DDK-tagged

Cat. No. Fgd1-2990M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length FYVE, RhoGEF and PH domain containing 1 (Fgd1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	This gene encodes a member of family of Rho-specific guanine nucleotide exchange factors. Rho-specific guanine nucleotide exchange factors catalyze the exchange of GDP for GTP and activate small GTPases, which function as molecular switches in signaling. This protein specifically binds cell division cycle 42, a Rho (Ras homology) GTPase. Investigations in mouse suggest that this protein is important for skeletal mineralization and for regulating the actin cytoskeleton. In humans, mutations in this gene are associated with faciogenital dysplasia, also known as Aarskog-Scott syndrome.
Molecular Mass	106.8 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 Fgd1 FYVE, RhoGEF and PH domain containing 1 [*Mus musculus* (house mouse)]

Official Symbol Fgd1

Synonyms FGD1; FYVE, RhoGEF and PH domain containing 1; FYVE, RhoGEF and PH domain-containing protein 1; rho/Rac GEF; faciogenital dysplasia homolog; faciogenital dysplasia 1 protein homolog; zinc finger FYVE domain-containing protein 3; rho/Rac guanine nucleotide exchange factor FGD1; ZFYVE3

Gene ID 14163

mRNA Refseq NM_008001

Protein Refseq NP_032027

UniProt ID P52734

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