

Recombinant Human FGD1, GST-tagged

Cat. No. FGD1-12857H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human FGD1 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	C-term-351a.a.
Description	This gene encodes a protein that contains Dbl (DH) and pleckstrin (PH) homology domains and is similar to the Rho family of small GTP-binding proteins. The encoded protein specifically binds to the Rho family GTPase Cdc42Hs and can stimulate the GDP-GTP exchange of the isoprenylated form of Cdc42Hs. It also stimulates the mitogen activated protein kinase cascade leading to c-Jun kinase SAPK/JNK1 activation. Defects in this gene are the cause of faciogenital dysplasia and X-linked mental retardation, syndromatic 16.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

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Gene Name	FGD1 FYVE, RhoGEF and PH domain containing 1 [Homo sapiens]
Official Symbol	FGD1
Synonyms	FGD1; FYVE, RhoGEF and PH domain containing 1; faciogenital dysplasia (Aarskog Scott syndrome) , FGDY; FYVE, RhoGEF and PH domain-containing protein 1; ZFYVE3; rho/Rac GEF; faciogenital dysplasia 1 protein; zinc finger FYVE domain-containing protein 3; rho/Rac guanine nucleotide exchange factor FGD1; AAS; FGDY; MRXS16;
Gene ID	2245
mRNA Refseq	NM_004463
Protein Refseq	NP_004454
MIM	300546
UniProt ID	P98174
Chromosome Location	Xp11.21
Pathway	Cell death signalling via NRAGE, NRIF and NADE, organism-specific biosystem; G alpha (12/13) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; NRAGE signals death through JNK, organism-specific biosystem; Regulation of Actin Cytoskeleton, organism-specific biosystem; Regulation of CDC42 activity, organism-specific biosystem; Regulation of actin cytoskeleton, organism-specific biosystem;
Function	Rho guanyl-nucleotide exchange factor activity; guanyl-nucleotide exchange factor

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activity; metal ion binding; small GTPase binding;

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