

Active Recombinant Human FGF12 protein, His-tagged

Cat. No. FGF12-3238H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human FGF12 protein(P61328)(1-181 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	1-181 aa
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Fibroblast Growth Factor 12 (FGF12) is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth, and invasion. Fibroblast Growth Factor 12 (FGF12) may represent an important modulator of neuronal network activity and has been associated with developmental and epileptic encephalopathy (DEE). Besides, it is reported that both domains of (Ca²⁺)₄-CaM directly bind two sites in the N-terminal domain (NTD) of A-type FGF splice variants (FGF11A, FGF12A, FGF13A, and FGF14A) with high affinity. Calmodulin 1 (CALM1) has been identified as an interactor of FGF12, thus a binding ELISA assay was conducted to detect the interaction of recombinant human FGF12 and recombinant human CALM1. Briefly, FGF12 was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to CALM1-coated microtiter wells

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and incubated for 1h at 37°C. Wells were washed with PBST and incubated for 1h with anti-FGF12 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37°C, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50 µ stop solution to the wells and read at 450/630nm immediately. The binding activity of recombinant human FGF12 and recombinant human CALM1 was shown, the EC50 for this effect is 4.44 ug/mL.

Molecular Mass	24.1kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	> 95%
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	FGF12 fibroblast growth factor 12 [Homo sapiens]
Official Symbol	FGF12
Synonyms	FGF12; fibroblast growth factor 12; FGF12B; FHF1; fibroblast growth factor 12B; fibroblast growth factor FGF 12b; fibroblast growth factor homologous factor 1; myocyte activating factor; FHF-1; FGF-12; myocyte-activating factor; fibroblast growth factor FGF-12b;

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Gene ID 2257

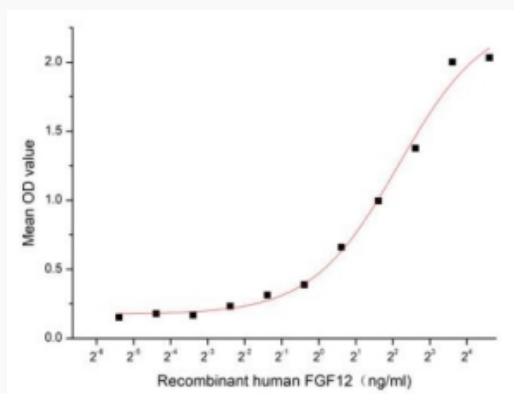
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Protein Refseq NP_004104

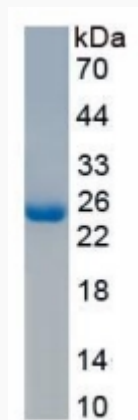
MIM 601513

UniProt ID P61328

Activity



SDS-PAGE



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