Recombinant Mouse Ngef Protein, Myc/DDK-tagged

Cat. No. Ngef-4405M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length neuronal guanine nucleotide exchange factor (Ngef), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Acts as a guanine nucleotide exchange factor (GEF) which differentially activates the GTPases RHOA, RAC1 and CDC42. Plays a role in axon guidance regulating ephrin-induced growth cone collapse and dendritic spine morphogenesis. Upon activation by ephrin through EPHA4, the GEF activity switches toward RHOA resulting in its activation. Activated RHOA promotes cone retraction at the expense of RAC1- and CDC42-stimulated growth cone extension.
Molecular Mass	82.2 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.
Concentration	>50 μg/mL as determined by microplate BCA method

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

GENE INFORMATION

Gene Name	Ngef neuronal guanine nucleotide exchange factor [Mus musculus (house mouse)]
Official Symbol	Ngef
Synonyms	Ngef; neuronal guanine nucleotide exchange factor; Tim; ephe; Tims2; ephexin; ephexin-1; eph-interacting exchange protein; transforming immortalised mammary epithelial sequence 2
Gene ID	53972
mRNA Refseq	NM_001111314
Protein Refseq	NP_001104784
UniProt ID	Q8CHT1

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