Active Recombinant Rat BDNF Protein, Tag Free

Cat. No. BDNF-06R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	This protein is animal origin-free, carrier-free, tag-free, and non-glycosylated to ensure its purity with exceptional lot-to-lot consistency.
Species	Rat
Source	E.coli
Description	Brain-derived neurotrophic factor (BDNF) is a member of neurotrophin family and plays a crucial role in neural development, maintenance, and function. It stimulates neurogenesis and is also a major regulator of synaptic plasticity and neuroprotection. It is used to maintain neurons and differentiate mature pluripotent stem cell-derived neural progenitors to cortical and motor neurons and cortical organoids.
Bio-activity	Lyophilized from acetonitrile, TFA
Molecular Mass	14 kDa
Endotoxin	< 0.05 EU/μg protein
Purity	>98%, by SDS-PAGE quantitative densitometry
Applications	Differentiation of midbrain dopaminergic neurons; Differentiation of iPSC derived neural progenitors to neurons; Generation of iPSC-derived midbrain organoids
Storage	Resuspend in sterile-filtered water at >50 μg/mL, add carrier protein if desired,

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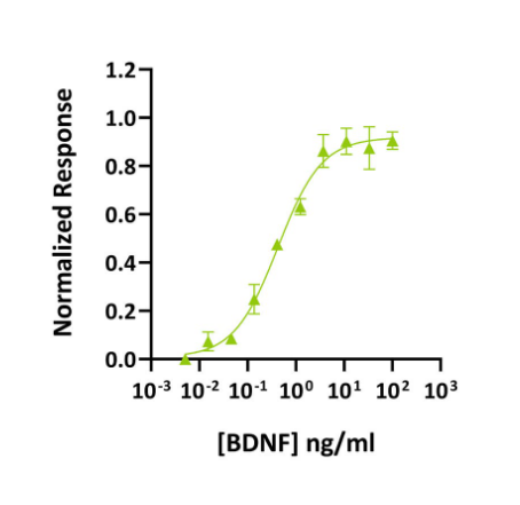
	prepare single use aliquots and store frozen at -20 centigrade (short-term) or -80 centigrade (long-term).

GENE INFORMATION

Gene Name	Bdnf brain-derived neurotrophic factor [Rattus norvegicus]
Official Symbol	BDNF
Synonyms	BDNF; brain-derived neurotrophic factor; brain derived neurotrophic factor; brain derived neurothrophic factor; MGC105254;
Gene ID	24225
mRNA Refseq	NM_012513
Protein Refseq	NP_036645
UniProt ID	A0A0G2K624
Activity	

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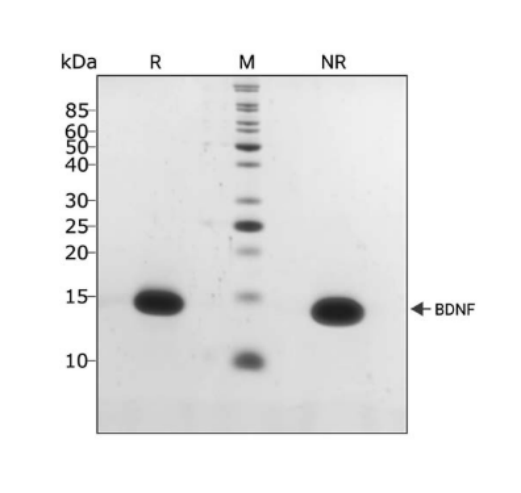
SDS-PAGE	

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