



# Mouse glial cell line-derived neurotrophic factor, GDNF ELISA KIT

Product Code	CSB-E07341m
Abbreviation	GDNF
Uniprot No.	P48540
Product Type	ELISA Kit
Immunogen Species	Mus musculus (Mouse)
Sample Types	serum, plasma, tissue homogenates
Detection Range	10.9 pg/ml - 8000 pg/ml
Sensitivity	10.9 pg/ml
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Neuroscience
Gene Names	Gdnf
Tag Info	quantitative
Protein Description	Sandwich

## Description

The product CSB-E07341m is a sandwich ELISA kit developed to measure levels of mouse glial cell line-derived neurotrophic factor (GDNF) in serum, plasma, or tissue homogenates. The enzyme-substrate chromogenic reaction is also used to amplify the signal and quantify the levels of the analyte through the intensity of the colored product. The color intensity positively correlates with the amount of GDNF bound in the initial step.

In the nervous system, GDNF not only plays a role in the maintenance of several neuronal populations in the central nervous systems, including midbrain dopamine neurons and motoneurons but also supports survival and regulates the differentiation of many peripheral neurons, including sympathetic, parasympathetic, sensory and enteric neurons. Additionally, GDNF is involved in the regulation of kidney morphogenesis and spermatogenesis. GDNF binds preferentially to GFR $\alpha$ 1 and activates the RET tyrosine kinase, playing a crucial role in renal development and regulation of spermatogonia differentiation.

## Msds

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