

ARG81648 Rat GDNF ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81648-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81648-002	Standard	2 X 10 ng/vial	4°C
ARG81648-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81648-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81648-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81648-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81648-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81648-008	25X Wash buffer	20 ml	4°C
ARG81648-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81648-010	STOP solution	10 ml (Ready to use)	4°C
ARG81648-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG81648 Rat GDNF ELISA Kit is an Enzyme Immunoassay kit for the quantification of Rat GDNF in serum, plasma (heparin, EDTA) and cell culture supernatants.
Tested Reactivity	Rat
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	GDNF
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	15.6 pg/ml
Sample Type	Serum, plasma (heparin, EDTA) and cell culture supernatants.
Standard Range	31.2 - 2000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 6.6%; Inter-Assay CV: 7.7%
Alternate Names	ATF; Astrocyte-derived trophic factor; HSCR3; hGDNF; Glial cell line-derived neurotrophic factor; HFB1-GDNF; ATF1; ATF2

Application Instructions

Assay Time	~ 5 hours
------------	-----------

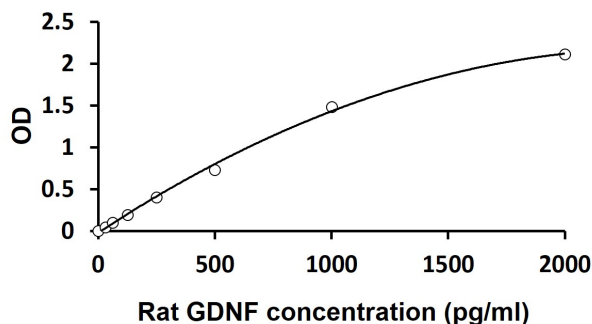
Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	GDNF
Gene Full Name	glial cell derived neurotrophic factor
Background	This gene encodes a highly conserved neurotrophic factor. The recombinant form of this protein was shown to promote the survival and differentiation of dopaminergic neurons in culture, and was able to prevent apoptosis of motor neurons induced by axotomy. The encoded protein is processed to a mature secreted form that exists as a homodimer. The mature form of the protein is a ligand for the product of the RET (rearranged during transfection) protooncogene. Multiple transcript variants encoding different isoforms have been found for this gene. Mutations in this gene may be associated with Hirschsprung disease. [provided by RefSeq, Jun 2010]
Function	Neurotrophic factor that enhances survival and morphological differentiation of dopaminergic neurons and increases their high-affinity dopamine uptake. [UniProt]
Highlight	Related products: GDNF antibodies ; GDNF ELISA Kits ; GDNF recombinant proteins ; New ELISA data calculation tool: Simplify the ELISA analysis by GainData

Images



ARG81648 Rat GDNF ELISA Kit standard curve image

ARG81648 Rat GDNF ELISA Kit results of a typical standard run with optical density reading at 450 nm.