

ARG82554 Mouse GDNF Receptor alpha 2 ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG82554-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82554-002	Standard	2 X 10 ng/vial	4°C
ARG82554-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82554-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG82554-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82554-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG82554-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82554-008	25X Wash buffer	20 ml	4°C
ARG82554-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82554-010	STOP solution	10 ml (Ready to use)	4°C
ARG82554-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG82554 Mouse GDNF Receptor alpha 2 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Mouse GDNF Receptor alpha 2 in serum, plasma (EDTA, heparin, citrate) and cell culture supernatants.
Tested Reactivity	Ms
Tested Application	ELISA
Target Name	GDNF Receptor alpha 2
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	156 pg/ml
Sample Type	Serum, plasma (EDTA, heparin, citrate) and cell culture supernatants.
Standard Range	312 - 20000 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: 4.5%

Inter-Assay CV: 5.9%

Alternate Names

NRTNR-alpha; GDNFR-alpha-2; NRTNR-ALPHA; GFR-alpha-2; GDNFRB; RET ligand 2; GDNF receptor alpha-2; GDNFR-beta; TRNR2; NTNRA; NTN-NTNR-alpha; TGF-beta-related neurotrophic factor receptor 2; RETL2; GDNF receptor beta; Neurturin receptor alpha; GDNF family receptor alpha-2

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 GFRA2

Gene Full Name GDNF family receptor alpha 2

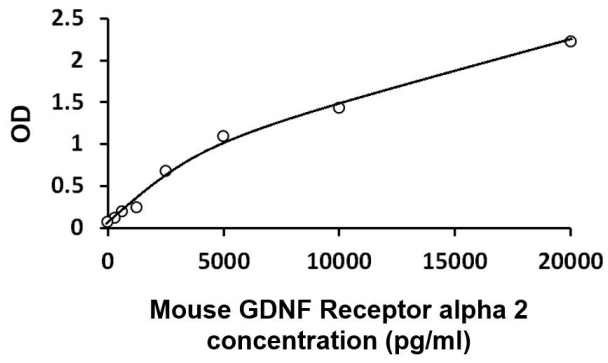
Background Glial cell line-derived neurotrophic factor (GDNF) and neurturin (NTN) are two structurally related, potent neurotrophic factors that play key roles in the control of neuron survival and differentiation. The protein encoded by this gene is a member of the GDNF receptor family. It is a glycosylphosphatidylinositol(GPI)-linked cell surface receptor for both GDNF and NTN, and mediates activation of the RET tyrosine kinase receptor. This encoded protein acts preferentially as a receptor for NTN compared to its other family member, GDNF family receptor alpha 1. This gene is a candidate gene for RET-associated diseases. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2009]

Function Receptor for neurturin. Mediates the NRTN-induced autophosphorylation and activation of the RET receptor. Also able to mediate GDNF signaling through the RET tyrosine kinase receptor.

Isoform 2: Participates to NRTN-induced 'Ser-727' phosphorylation of STAT3. [UniProt]

Highlight Related products:
[GDNF Receptor antibodies](#); [GDNF Receptor ELISA Kits](#);
New ELISA data calculation tool:
[Simplify the ELISA analysis by GainData](#)

Cellular Localization Cell membrane; Lipid-anchor, GPI-anchor. [UniProt]



ARG82554 Mouse GDNF Receptor alpha 2 ELISA Kit standard curve image

ARG82554 Mouse GDNF Receptor alpha 2 ELISA Kit results of a typical standard run with optical density reading at 450 nm.