

ARG83038 Human GDNF ELISA Kit

Package: 96 wells
Store at: 4°C

Summary

Product Description	ARG83038 Human GDNF ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human GDNF in serum, plasma (heparin), ascites, urine and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	Cross-reacts with: Mouse GDNF (50%). Rat GDNF (50%). Not cross-reacts with: Human BDNF, CNTF, beta NGF, Syndecan 3, Neurturin. Mouse BDNF, CNTF, beta NGF, Neurturin. Rat BDNF, CNTF, beta NGF, Neurturin.
Target Name	GDNF
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	0.14 ng/ml
Sample Type	Serum, plasma (heparin), ascites, urine and cell culture supernatants.
Standard Range	0.313 - 20 ng/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: less than 10% Inter-Assay CV: less than 10%
Alternate Names	GDNF, Glial Cell Derived Neurotrophic Factor, Astrocyte-Derived Trophic Factor, HFB1 GDNF, ATF1, ATF2, Glial Cell Line Derived Neurotrophic Factor, ATF, Glial Cell Line Derived Neurotrophic Factor, Glial Derived Neurotrophic Factor, HSCR, HGDNF

Application Instructions

Assay Time	~ 4 hours
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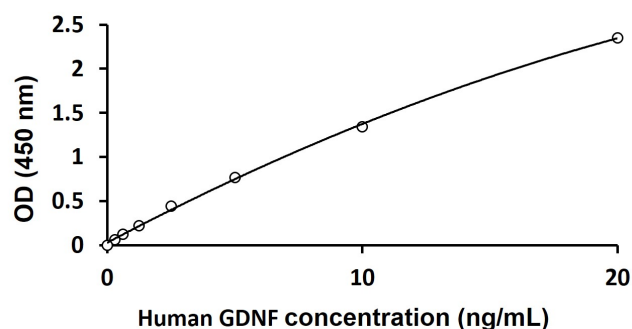
Properties

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 secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate each subunit of the disulfide-linked homodimer. The recombinant form of this protein, a highly conserved neurotrophic factor, 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. This protein is a ligand for the product of the RET (rearranged during transfection) protooncogene. Mutations in this gene may be associated with Hirschsprung disease and Tourette syndrome. This gene encodes multiple protein isoforms that may undergo similar proteolytic processing. [provided by RefSeq, Aug 2016]
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
PTM	Cleavage on pair of basic residues, Disulfide bond, Glycoprotein
Cellular Localization	Secreted

Images



ARG83038 Human GDNF ELISA Kit standard curve image

ARG83038 Human GDNF ELISA Kit results of standard run with optical density reading at 450 nm