

Human Glial cell line-derived neurotrophic factor Reference standard

Cat. No. GDNF-34H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The standard is intended for use as a biological reference standard for the biological activity of glial cell-derived neurotrophic factor.
Species	Human
Enzyme Unit	This preparation has been assigned a potency of 5000 units per ampoule.
Usage	No attempt should be made to weigh out any portion of the freeze-dried material prior to reconstitution. The standard is intended for calibration of local standards. For all practical purposes, each ampoule contains the same quantity of GDNF. The entire contents of each ampoule should be completely dissolved in a known volume of suitable solvent. It is recommended that, when possible, buffer containing carrier protein should be used to minimize loss by surface adsorption.
Notes	This preparation is not for administration to humans. The preparation contains material of human origin and either the final product or the source materials from which it is derived have been tested and found negative for HBsAg, anti-HIV and HCV RNA. As with all materials of biological origin, this preparation should be regarded as potentially hazardous to health. It should be used and discarded according to your own laboratory's safety procedures. Such safety procedures should include the wearing of protective gloves and avoiding the generation of aerosols. Care should be exercised in opening ampoules or vials, to avoid cuts.

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Stability

Reference materials are held at Creative Biomart within assured, temperature-controlled storage facilities and they should be stored on receipt as indicated on the label. Accelerated degradation studies have indicated that this material is suitably stable, when stored at -20°C or below, for the assigned values to remain valid until the material is withdrawn or replaced. These studies have also shown that the material is suitably stable for shipment at ambient temperature without any effect on the assigned values. Users who have data supporting any deterioration in the characteristics of any reference preparation are encouraged to contact Creative Biomart. .

Storage

The ampoules are shipped at ambient temperature. Unopened ampoules should be stored at -20 °C in the dark. For economy of use, it is recommended that the reconstituted solution be subdivided into several small containers and stored at, or below, -40 °C . Repeated freezing and thawing should be avoided. The ampoules do not contain bacteriostat and solutions of the ampouled material should not be assumed to be sterile. Please note: because of the inherent stability of lyophilized material, Creative Biomart may ship these materials at ambient temperature.

GENE INFORMATION

Gene Name	GDNF glial cell derived neurotrophic factor [Homo sapiens];
Official Symbol	GDNF
Synonyms	ATF1; ATF2; HSCR3; HFB1-GDNF; glial cell line-derived neurotrophic factor; ATF; astrocyte-derived trophic factor
Gene ID	2668
mRNA Refseq	NM_000514

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Protein Refseq	NP_000505
MIM	600837
UniProt ID	P39905
Chromosome Location	5p13.1-p12
Pathway	Axon guidance, organism-specific biosystem; NCAM signaling for neurite out-growth, organism-specific biosystem; NCAM1 interactions, organism-specific biosystem
Function	growth factor activity; protein homodimerization activity; receptor binding

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