

GNDF/ATF/HSCR3, Human, Recombinant

Cat. No. : PCK082

General Information

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|------------------------|---|
| Synonyms | ATF;ATF1;ATF2;HFB1-GDNF;HSCR3 |
| Species | Human |
| Expression host | E.coli |
| Sequence | MSPDKQMAVLPRRERNRQAAAANPENSRGKRRGQRGKNRGCVLTAIHLNVTDLGLGYETKE ELIFRYCSGSCDAAETTYDKILKNLSRNRRLVSDKVGQACCRPIAFDDDL SFLDDNLVYHILRKH SAKRCGCI with polyhistidine tag at the C-terminus. |
| Accession | P39905.1 |
| Tag | His-tag at the C-terminus |
| Mol mass | 16.01 kDa |
| Expiration date | 12 months |
| Bio activity | Measure by its ability to induce proliferation in SH-SY5Y cells. The ED50 for this effect is < 10 ng/mL. |

Product feature

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| Purity | > 95% as determined by SDS-PAGE. Ni-NTA chromatography. |
| Endotoxin (EU/μg) | < 0.1 |
| Storage | Lyophilized protein should be stored at -5~-20°C for 1 year. Upon reconstitution, store at 2-8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10% FBS, 5% HSA or 5% trehalose solution), protein aliquots should be stored at -5~-20°C or -80°C for 3-6 months. |
| Shipping | Ice bag |
| Formulation | The protein was lyophilized from a 0.2 μm filtered solution containing 20 mM sodium citrate, 0.2 M NaCl, pH 3.5. |
| Reconstitution | It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 100 μg/mL. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein. |

Background

Glial cell-derived neurotrophic factor (GDNF) is a protein that, in humans, is encoded by the GDNF gene. GDNF is a small protein that potently promotes the survival of many types of neurons. GDNF, that acts via classical neurotrophic mechanism, has been effective in several pre-clinical models of PD and had some efficacy in parkinsonian patients.