

PPH353 PODS® Human Neurturin

Description

The product contains the polyhedrin protein co-crystallized with Human Neurturin. Neurturin is a member of the GDNF family, itself belonging to the TGF superfamily of proteins. Neurturin is a disulfide-like homodimer and shares 92% sequence identity with murine Neurturin. It supports the survival of neurons in culture, including sympathetic, sensory and CNS neurons. Furthermore, it may regulate the development and maintenance of the CNS.

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| Length | 147 aa |
| Molecular Weight | 33.8 kDa |
| Source | <i>Spodoptera frugiperda (Sf9) cell culture</i> |
| Accession Number | Q99748 |

Usage Recommendation

PODS® co-crystals provide a depot of proteins which are steadily secreted. It has been estimated that the biological activity of 50 million PODS® co-crystals generates the same peak dose as 3.3 µg of standard recombinant protein. However, at 5 days following the start of seeding the PODS® co-crystals, there are more than 50% of these peak levels still present in the culture system. Ultimately, the amount of PODS® co-crystals that is optimal for a particular experiment should be determined empirically. Based on previous data, we suggest using 50 million PODS® co-crystals in place of 3.3 µg of standard growth factor as a starting point. To control for cross-reactivity with cells or as a negative control, we recommend using PODS® growth factors alongside PODS® Empty crystals, as the latter do not contain or release cargo protein.

Specifications

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| Alternative Names | NTN, NRTN |
| Endotoxin Level | <0.06 EU/ml as measured by gel clot LAL assay |
| Formulation | PODS® were lyophilized from a volatile solution |
| AA Sequence | MADVAGTSNR DFRGREQLF NSEQYNNNS KNSRPSTSLY KKAGFARLGA RPCGLRELEV RVSELGLGYA SDETVLFRYC AGACEAAARV YDLGLRRLRQ RRRLRRERVR AQPCCRPTAY EDEVSFLDAH SRYHTVHEL S ARECACV |

Preparation and Storage

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| Reconstitution | PODS® co-crystals may be reconstituted at 200 million co-crystals/ml in sterile PBS. 20% glucose has a buoyant density closer to PODS® co-crystals and can be useful for aliquoting. PODS® co-crystals are highly stable when stored in aqueous solution (pH range 6 - 8). |
| Stability and Storage | Upon receipt, store at 4°C. PODS® co-crystals are stable for at least 1 year when dry and 6 months when resuspended. |