
Product Data Sheet

Product Name: NGB Human, His
 Cat. No.: GP20769
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	NGB.		
Amino Acid Sequence	MKHHHHHHAS MERPEPELIR QSWRAVSRSP LEHGTVLFAR LFALEPDLLP LFQYNCRQFS SPEDCLSSPE FLDHIRKVML VIDAAVTNVE DLSSLEEYLA SLGRKHRAVG VKLSSFSTVG ELLYMLEKC LGPAFTPATR AAWSQLYGAV VQAMSRGWDG E.		
Solubility	It is recommended to add deionized water to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely. Neuroglobin is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.		
Formulation	NGB is Filtered (0.4µm) and lyophilized from 0.5mg/ml in phosphate buffered saline.		

Introduction

Neuroglobin, 151 amino acid residue protein, mainly expressed in vertebrate brain and retina, is a recently identified member of the globin superfamily. Augmenting O₂ supply, neuroglobin promotes survival of neurons upon hypoxic injury, potentially limiting brain damage. Moreover, neuroglobin may be a novel oxidative stress-responsive sensor for signal transduction in the brain. Neuroglobin expression is increased by neuronal hypoxia in vitro and focal cerebral ischemia in vivo, and neuronal survival after hypoxia is reduced by inhibiting neuroglobin expression with an antisense oligodeoxynucleotide and enhanced by neuroglobin overexpression.

Stability

Store lyophilized protein at -20°C . Aliquot the product after reconstitution to avoid

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repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C .

Background

Neuroglobin Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 161 amino acids (1-151a.a) and having a molecular mass of 18kDa. NGB is fused to 10 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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