9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

NGB Human, His

Neuroglobin Human Recombinant, His Tag
NTR0047

Product Overview

Name	NGB Human, His

Description

Neuroglobin Human Recombinant, His Tag

Synonyms

NGB.

Introduction

Neuroglobin, 151 amino acid residue protein, mainly expressed in vertebrate brain and retina, is a recently identified member of the globin superfamily. Augmenting O (2) 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.

Source

Escherichia Coli.

Physical Appearance

Filtered White lyophilized (freeze-dried) powder.

Formulation

NGB is Filtered (0.4 µm) and lyophilized from 0.5mg/ml in phosphate buffered saline.

Stability

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

Purity

Greater than 90% as determined by SDS-PAGE.

Amino acid sequence

MKHHHHHHAS MERPEPELIR QSWRAVSRSP LEHGTVLFAR LFALEPDLLP LFQYNCRQFS SPEDCLSSPE FLDHIRKVML VIDAAVTNVE DLSSLEEYLA SLGRKHRAVG VKLSSFSTVG ESLLYMLEKC LGPAFTPATR AAWSQLYGAV VQAMSRGWDG E.

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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.

Precautions

NGB Human, His is for research use only and not for use in diagnostic or therapeutic procedures.