www.neobiolab.com
info@neobiolab.com
888.754.5670, +1 617.500.7103 United States
0800.088.5164, +44 020.8123.1558 United Kingdom

NGB Human

Description:17kDa protein containing 151 amino acid residues of the Neuroglobin humanMERPEPELIR QSWRAVSRSP LEHGTVLFAR LFALEPDLLP LFQYNCRQFS SPEDCLSSPE FLDHIRKVML VIDAAVTNVE DLSSLEEYLA SLGRKHRAVG VKLSSFSTVG ESLLYMLEKC LGPAFTPATR AAWSQLYGAV VQAMSRGWDG E.

Catalog #:CYPS-457

For research use only.

Synonyms:NGB.

Source: Escherichia Coli.

Purity: Greater than 95% as determined by SDS-PAGE.

Purification Method:
Two-step procedure using size exclusion chromatography before and after refolding.

Specificty:
The amino acid sequence of the Neuroglobin human recombinant is 100% homologous to the amino acid sequence of the human Neuroglobin.

Formulation:
Sterile filtered and lyophilized from 0.5 mg/ml in 0.05M phosphate buffer, 0.1M NaCl, pH 7.2.

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.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:
Add 0.2 ml of H2O and let the lyophilized pellet dissolve completely.

Introduction:
Neuroglobin, 151 amino acid residue protein, mainly expressed in vertebrate brain and retina, is a recently identified member of the globin superfamily. Aµgmenting 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.

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