California Bioscience
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Product Datasheet

Product Name	Neuroglobin Human Recombinant
Cata No	CB500352
Source	Escherichia Coli.
Synonyms	NGB

Description

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.

Purity

Greater than 95% as determined by SDS-PAGE.

Specific Activity

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

Storage

Store lyophilized protein at -20℃. Aliquot the product after reconstitution to **avoid repeated freezing/thawing cycles**. The lyophilized protein remains stable until the expiry date when stored at -20℃.

Add 0.2 ml of H_2O and let the lyophilized pellet dissolve completely.Reconstituted protein can be stored at 4℃ for a limited period of time; it does not show any change after two weeks at 4℃.

Formulation

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

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