Datasheet for ABIN7561426

Neuroglobin Protein (NGB) (AA 1-151) (His tag)

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Overview

Quantity:	1 mg
Target:	Neuroglobin (NGB)
Protein Characteristics:	AA 1-151
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Neuroglobin protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Ngb Protein expressed in mammalien cells.
Sequence:	MERPESELIR QSWRVVSRSP LEHGTVLFAR LFALEPSLLP LFQYNGRQFS SPEDCLSSPE FLDHIRKVML VIDAAVTNVE DLSSLEEYLT SLGRKHRAVG VRLSSFSTVG ESLLYMLEKC LGPDFTPATR TAWSRLYGAV VQAMSRGWDG E **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalien cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.

Product Details

	• State-of-the-art algorithm used for plasmid design (Gene synthesis). This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein. If you are not interested in a full length protein, please contact us for individual protein fragments. The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	Neuroglobin (NGB)
Alternative Name:	Ngb (NGB Products)
Background:	Neuroglobin (Nitrite reductase) (EC 1.7.-.-),FUNCTION: Monomeric globin with a bis-histidyl six-coordinate heme-iron atom through which it can bind dioxygen, carbon monoxide and nitric oxide (PubMed:11029004, PubMed:11473111, PubMed:11473128). Could help transport oxygen and increase its availability to the metabolically active neuronal tissues, though its low quantity in tissues as well as its high affinity for dioxygen, which may limit its oxygen-releasing ability, argue against it (PubMed:11029004, PubMed:11473128). The ferrous/deoxygenated form exhibits a nitrite reductase activity and it could produce nitric oxide which in turn inhibits cellular respiration in response to hypoxia. In its ferrous/deoxygenated state, it may also exhibit GDI (Guanine nucleotide Dissociation Inhibitor) activity toward heterotrimeric G-alpha proteins, thereby regulating signal transduction to facilitate neuroprotective responses in the wake of hypoxia and associated oxidative stress (By similarity). {ECO:0000250|UniProtKB:Q9NPG2, ECO:0000269|PubMed:11029004, ECO:0000269|PubMed:11473111, ECO:0000269|PubMed:11473128}.
Molecular Weight:	17.0 kDa
UniProt:	Q9ER97

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months