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Datasheet for ABIN7547848

GCH1 Protein (AA 1-250) (His tag)

Overview

Quantity:	1 mg
Target:	GCH1
Protein Characteristics:	AA 1-250
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GCH1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat GCH1 Protein expressed in mammalien cells.
Sequence:	MEKGPVRAPA EKPRGARCSN GFPERDPPRP GPSRPAEKPP RPEAKSAQPA DGWKGERPRS EEDNELNLPN LAAAYSSILS SLGENPQRQG LLKTPWRAAS AMQFFTKGYQ ETISDVLNDA IFDEDHDEMIVKIDIDMFSM CEHHLVPFVG KVHIGYLPNK QVLGLSKLAR IVEIYSRRLQ VQERLTKQIA VAITEALRPA GVGVVVEATH MCMVMRGVQK MNSKTVTSTM LGVFREDPKT REEFLTLIRS 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: <ul style="list-style-type: none">• 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

Product Details

transmembrane proteins.

- 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
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Grade:	custom-made
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Target Details

Target:	GCH1
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Alternative Name:	GCH1 (GCH1 Products)
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Background:	GTP cyclohydrolase 1 (EC 3.5.4.16) (GTP cyclohydrolase I) (GTP-CH-I),FUNCTION: Positively regulates nitric oxide synthesis in umbilical vein endothelial cells (HUVECs). May be involved in dopamine synthesis. May modify pain sensitivity and persistence. Isoform GCH-1 is the functional enzyme, the potential function of the enzymatically inactive isoforms remains unknown. {ECO:0000269 PubMed:12176133, ECO:0000269 PubMed:16338639, ECO:0000269 PubMed:17057711, ECO:0000269 PubMed:8068008, ECO:0000269 PubMed:9445252}.
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Molecular Weight:	27.9 kDa
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UniProt:	P30793
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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.
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Restrictions:	For Research Use only
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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