Datasheet for ABIN3081034

GUCY2C Protein (AA 24-430) (His tag)

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Overview

Quantity:	1 mg
Target:	GUCY2C
Protein Characteristics:	AA 24-430
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GUCY2C protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	MSQVSQNCHN GSYEISVLMM GNSAFAEPLK NLEDAVNEGL EIVRGRLQNA GLNVTVNATF M YSDGLIHNSG DCRSSTCEGL DLLRKISNAQ RMGCVLIGPS CTYSTFQMYL DTELSYPMIS AGSFGLSCDY KETLTRLMSP ARKLMYFLVN FWKTNDLPFK TYSWSTSYVY KNGTETEDCF WYLNALEASV SYFSHELGFK VVLRQDKEFQ DILMDHNRKS NVIIMCGGPE FLYKLKGDRA VAEDIVIILV DLFNDQYFED NVTAPDYMKN VLVLTLSPGN SLLNSSFSRN LSPTKRDFAL AYLNGILLFG HM LKIFLENGEN ITTPKFAHAF RNLTFEGYDG PVTLDDWGDV DSTMVLLY TSVDTKKYKV LLTYDTHVNK TYPVDMSPTF TWKNSKLPND ITGRGPQHHH HHH **Sequence including C-terminal His-tag.**
Characteristics:	• Made in Germany - from design to production - by highly experienced protein experts. • Human GUCY2C Protein (raised in E.coli) purified by multi-step, protein-specific process to ensure crystallization grade. • State-of-the-art algorithm used for plasmid design (Gene synthesis).

Product Details

	The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer. The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in bacterial culture: 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE. 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Endotoxin has not been removed. Please contact us if you require endotoxin removal.
Grade:	Crystallography grade

Target Details

Target:	GUCY2C
Alternative Name:	GUCY2C (GUCY2C Products)
Background:	Receptor for the E.coli heat-stable enterotoxin (E.coli enterotoxin markedly stimulates the accumulation of cGMP in mammalian cells expressing GC-C). Also activated by the endogenous peptides guanylin and uroguanylin.
Molecular Weight:	47.0 kDa Including tag.
UniProt:	P25092

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.
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to

Application Details

	increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	In solution (50 mM NaH2PO4, pH 7.4, 50 mM NaCl, 10 % Glycerol, 0.1 % Laurylsarcosine)
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

