Datasheet for ABIN7554757

C14orf169 + NO66 Protein (AA 1-641) (His tag)

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Overview

Quantity:	1 mg
Target:	C14orf169 + NO66 (C14orf169)
Protein Characteristics:	AA 1-641
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This C14orf169 + NO66 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant RIOX1 Protein expressed in mammalian cells.
Sequence:	MDGLQASAGP LRRGRPKRRR KPQPHSGSVL ALPLRSRKIR KQLRSVVSRM AALRTQTLPS ENSEESRVES TADDLGDALP GGAAVAAVPD AARREPYGHL GPAELLEASP AARSLQTPSA RLVPASAPPA RLVEVPAAPV RVVETSALLC TAQHLAAVQS SGAPATASGP QVDNTGGEPA WDSPLRRVLA ELNRIPSSRR RAARLFEWLI APMPPDHFYR RLWEREAVLV RRQDHTYYQG LFSTADLDSM LRNEEVQFGQ HLDAARYING RRETLNPPGR ALPAAAWSLY QAGCSLRLLC PQAFSTTVWQ FLAVLQEQFG SMAGSNVYLT PPNSQGFAPH YDDIEAFVLQ LEGRKLWRVY RPRVPTEELA LTSSPNFSQD DLGEPVLQTV LEPGDLLYFP RGFIHQAECQ DGVHSLHLTL STYQRNTWGD FLEAILPLAV QAAMEENVEF RRGLPRDFMD YMGAQHSDSK DPRRTAFMEK VRVLVARLGH FAPVDAVADQ RAKDFIHDSL PPVLTDRERA LSVYGLPIRW EAGEPVNVGA QLTTETEVHM LQDGIARLVG EGGHLFLYYT VENSRVYHLE EPKCLEIYPQ QADAMELLLG SYPEFVRVGD LPCDSVEDQL SLATTLYDKG LLLTKMPLAL N **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different**

Product Details

	complexity of the protein could make another tag necessary. In case you have a special request, please contact us.
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and 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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	C14orf169 + NO66 (C14orf169)
Alternative Name:	RIOX1 (C14orf169 Products)
Background:	Ribosomal oxygenase 1 (60S ribosomal protein L8 histidine hydroxylase) (Bifunctional lysine-specific demethylase and histidyl-hydroxylase NO66) (EC 1.14.11.27, EC 1.14.11.79) (Myc-associated protein with JmjC domain) (Nucleolar protein 66) (hsNO66) (Ribosomal oxygenase NO66) (ROX),FUNCTION: Oxygenase that can act as both a histone lysine demethylase and a ribosomal histidine hydroxylase (PubMed:23103944). Specifically demethylates 'Lys-4' (H3K4me) and 'Lys-36' (H3K36me) of histone H3, thereby playing a central role in histone code (By similarity). Preferentially demethylates trimethylated H3 'Lys-4' (H3K4me3) and monomethylated H3 'Lys-4' (H3K4me1) residues, while it has weaker activity for dimethylated H3 'Lys-36' (H3K36me2) (By similarity). Acts as a regulator of osteoblast differentiation via its

Target Details

	interaction with SP7/OSX by demethylating H3K4me and H3K36me, thereby inhibiting SP7/OSX-mediated promoter activation (By similarity). Also catalyzes demethylation of non-histone proteins, such as CGAS: demethylation of monomethylated CGAS promotes interaction between CGAS and PARP1, followed by PARP1 inactivation (By similarity). Also catalyzes the hydroxylation of 60S ribosomal protein L8 on 'His-216', thereby playing a role in ribosome biogenesis (PubMed:23103944). Participates in MYC-induced transcriptional activation (PubMed:17308053). {ECO:0000250|UniProtKB:Q9JJF3, ECO:0000269|PubMed:17308053, ECO:0000269|PubMed:23103944}.
Molecular Weight:	71.1 kDa
UniProt:	Q9H6W3

Application Details

Application Notes:	We expect the protein to work for functional studies. 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

