

Human DYDC2 / DPY30 domain containing 2 Protein (GST Tag)

Catalog Number: 13911-H09E



Sino Biological Inc.
Biological Solution Specialist

General Information

Gene Name Synonym:

4933428D01Rik

Protein Construction:

A DNA sequence encoding the mature form of human DYDC2 (Q96IM9) (Thr102-Pro176) was fused with the GST tag at the N-terminus.

Source: Human

Expression Host: E. coli

QC Testing

Purity: > 93 % as determined by SDS-PAGE

Endotoxin:

Please contact us for more information.

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Met

Molecular Mass:

The recombinant human DYDC2 /GST chimera consists of 307 amino acids and has a predicted molecular mass of 35.5 kDa. It migrates as an approximately 37 kDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

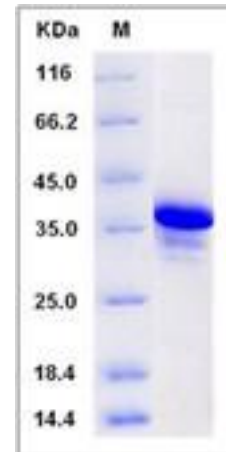
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

DPY30 domain containing 2 belongs to the dpy-30 family. Dumpy-30 family members act as determinants of male fertility and interaction partners of metal-responsive transcription factor 1 (MTF-1) in *Drosophila*. MTF-1 plays a key role in transition metal detoxification and homeostasis. It binds to metal response elements (MREs). Two candidate dMTF-1 interactors are related to the small regulatory protein Dumpy-30 (Dpy-30) of the worm *C. elegans*. Dpy-30 is the founding member of a protein family involved in chromatin modifications, notably histone methylation. Mutants affect mating type in yeast and male mating in *C. elegans*. As part of the MLL1/MLL complex, DPY30 domain containing 2 is involved in methylation and dimethylation at 'Lys-4' of histone H3. H3 'Lys-4' methylation represents a specific tag for epigenetic transcriptional activation. DPY30 domain containing 2 may also play an indirect or direct role in endosomal transport.

References

- 1.1. Deloukas P, *et al.* (2004) The DNA sequence and comparative analysis of human chromosome 10. *Nature*. 429(6990):375-81.
- 2.2. Rual JF, *et al.* (2005) Towards a proteome-scale map of the human protein-protein interaction network. *Nature*. 437(7062):1173-8.
- 3.3. Xin X, *et al.* (2009) Shifted Transversal Design smart-pooling for high coverage interactome mapping. *Genome Res*. 19(7):1262-9.

Manufactured By Sino Biological Inc., FOR RESEARCH USE ONLY. NOT FOR USE IN HUMANS.

Fax :+86-10-51029969 • Tel:+86-400-890-9989 • <http://www.sinobiological.com>