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Datasheet for ABIN7548517
DIO3 Protein (AA 1-304) (His tag)

Overview

Quantity:	1 mg
Target:	DIO3
Protein Characteristics:	AA 1-304
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DIO3 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant DIO3 Protein expressed in mammalian cells.
Sequence:	<p>MPRQATSRLV VGEGEQSQA SGPAAATMLRS LLLHSLRLCA QTASCLVLFP RFLGTAFMLW LLDFLCIRKH FLGRRRRGQP ELEVELNSEG EEVPPDDPPI CVSDDNRLCT LASLKAVWHG QKLDFFKQAH EGGPAPNSEV VLPDGFQSQH ILDYAQGNRP LVLNFGSCTU PPFMARM SAF QRLVTKYQRD VDFLIYIEE AHPSDGWVTT DSPYIIPQHR SLEDRVSAAR VLQQGAPGCA LVLDTMANSS SSAYGAYFER LYVIQSGTIM YQGGRGPDGY QVSELRTWLE RYDEQLHGAR PRRV</p> <p>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.</p>
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:

Product Details

- 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:	DIO3
Alternative Name:	DIO3 (DIO3 Products)
Background:	Thyroxine 5-deiodinase (EC 1.21.99.3) (5DIII) (DIOIII) (Type 3 DI) (Type III iodothyronine deiodinase),FUNCTION: Responsible for the deiodination of T4 (3,5,3',5'-tetraiodothyronine) into RT3 (3,3',5'-triiodothyronine) and of T3 (3,5,3'-triiodothyronine) into T2 (3,3'-diiodothyronine). RT3 and T2 are inactive metabolites. May play a role in preventing premature exposure of developing fetal tissues to adult levels of thyroid hormones. Can regulate circulating fetal thyroid hormone concentrations throughout gestation. Essential role for regulation of thyroid hormone inactivation during embryological development. {ECO:0000269 PubMed:7593630}.
Molecular Weight:	33.9 kDa
UniProt:	P55073
Pathways:	Hormone Activity

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for
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Application Details

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
