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Datasheet for ABIN7557673 **DIO1 Protein (AA 1-257) (His tag)**

Overview

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| Quantity: | 1 mg |
| Target: | DIO1 |
| Protein Characteristics: | AA 1-257 |
| Origin: | Mouse |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This DIO1 protein is labelled with His tag. |

Product Details

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| Purpose: | Custom-made recombinant Dio1 Protein expressed in mammalian cells. |
| Sequence: | MGLPQLWLWL KRLVIFLQVA LEVAVGKVLMTLFPGRVKQS ILAMGQKTGM ARNPRFAPDN WVPTFFSIQY FWFVLKVRWQ RLEDRAEFGG LAPNCTVVCL SGQKCNIWDF IQGSRPLVLN FGSCTUPSFL LKFDQFKRLV DDFASTADFL IYIEEAHAT DGWAFKNNVD IRQHRSLQER VRAARLLLAR SPQCPVVVDT MQNQSSQLYA ALPERLYVIQ EGRICYKGKA GPWNYNPEEV RAVLEKLCTP PRHVPQL 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. |
| 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: <ul style="list-style-type: none">• Made to order protein - from design to production - by highly experienced protein experts. |

Product Details

- 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.

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| Purity: | > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC) |
| Grade: | custom-made |

Target Details

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| Target: | DIO1 |
| Alternative Name: | Dio1 (DIO1 Products) |
| Background: | Type I iodothyronine deiodinase (EC 1.21.99.4) (5DI) (DIOI) (Type 1 DI) (Type-I 5'-deiodinase),FUNCTION: Responsible for the deiodination of T4 (3,5,3',5'-tetraiodothyronine) into T3 (3,5,3'-triiodothyronine) and of T3 into T2 (3,3'-diiodothyronine). |
| Molecular Weight: | 29.6 kDa |
| UniProt: | Q61153 |
| Pathways: | Hormone Activity |

Application Details

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| 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

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| 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 |