

Datasheet for ABIN7563386

## HSD17B2 Protein (AA 1-381) (His tag)



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### 3 Images

#### Overview

|                               |  |
|-------------------------------|--|
| Quantity:                     | 1 mg   |
| Target:                       | HSD17B2  |
| Protein Characteristics:      | AA 1-381                                       |
| Origin:                       | Mouse  |
| Source:                       | HEK-293 Cells                                  |
| Protein Type:                 | Recombinant                                    |
| Purification tag / Conjugate: | This HSD17B2 protein is labelled with His tag. |

#### Product Details

|                  |  |
|------------------|--|
| Purpose:         | Custom-made recombinant Hsd17b2 Protein expressed in mammalian cells.  |
| Sequence:        | <p>MSPFASESAA LCLAAAVLG GTLLCGCRSG RQLRSQAVCL AGLWGGACLL SLSLLCTLFL<br/>           LSVACFLLLY MSSSDQDLLP VDQKAVLVGT ADSGFGHGLA KHLDKLGFTV FAGVLDKEGP<br/>           GAEELRKHCS ERLSVLQMDV TKPEQIKDAH SKVTEKIQDK GLWAVVNNAG VFHLPIDGEL<br/>           IPMSIYRKM AVNFFGTVEV TKAFLPLLRL SKGRLVNVSS MGGTVPLQMT SAYAATKAAL<br/>           TMFSTIIRQE LDKWGVKVVV IKPGGFKTNI TGSQDIWDKM EKEILDHFSK DIQENYGQDY<br/>           VHTQKLIPT LKERSNPDI PVLRDIQHAI SARNPSSFY PGRMAYLWVC LAAYCPTSL<br/>           DYVIKKGFP QPTPRALRTV H</p> <p><b>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.</b></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:           | HSD17B2   |
| Alternative Name: | Hsd17b2 ( <a href="#">HSD17B2 Products</a> )  |
| Background:       | Estradiol 17-beta-dehydrogenase 2 (EC 1.1.1.62) (17-beta-hydroxysteroid dehydrogenase type 2) (17-beta-HSD 2) (Testosterone 17-beta-dehydrogenase) (EC 1.1.1.239),FUNCTION: Catalyzes the NAD-dependent oxidation of highly active 17beta-hydroxysteroids, such as estradiol (E2), testosterone (T), and dihydrotestosterone (DHT), to their less active forms and thus regulates the biological potency of these steroids. Oxidizes estradiol to estrone, testosterone to androstenedione, and dihydrotestosterone to 5alpha-androstan-3,17-dione. Also has 20-alpha-HSD activity. {ECO:0000250 UniProtKB:P37059}. |
| Molecular Weight: | 41.8 kDa  |
| UniProt:          | <a href="#">P51658</a>  |
| Pathways:         | <a href="#">Steroid Hormone Biosynthesis</a>  |

## Application Details

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

Application Details

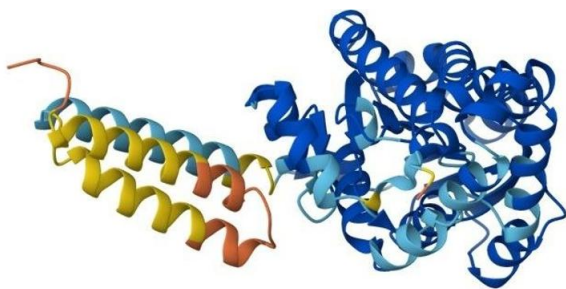
functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

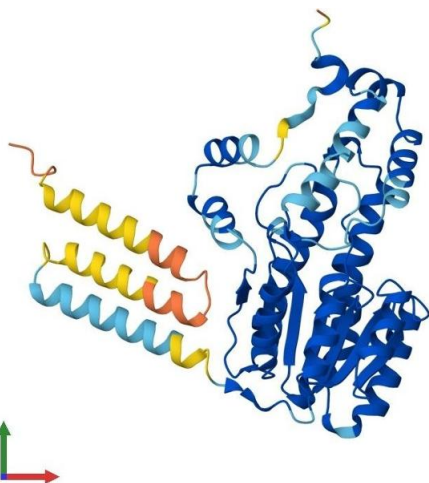
|                  |  |
|------------------|--|
| Format:          | Liquid   |
| Buffer:          | The buffer composition is at the discretion of the manufacturer. |
| Handling Advice: | Avoid repeated freeze-thaw cycles.                               |
| Storage:         | -80 °C   |
| Storage Comment: | Store at -80°C.  |
| Expiry Date:     | 12 months  |

Images



**Protein Structure**

**Image 1.** AlphaFold protein structure prediction of Mouse Recombinant Hsd17b2 Protein, UniprotID P51658



**Protein Structure**

**Image 2.** AlphaFold protein structure prediction of Mouse Recombinant Hsd17b2 Protein, UniprotID P51658



#### Protein Structure

**Image 3.** AlphaFold protein structure prediction of Mouse Recombinant Hsd17b2 Protein, UniprotID P51658