

## Recombinant Human HSD11B1 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** HSD11B1-1415H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | HSD11B1 MS Standard C13 and N15-labeled recombinant protein (NP_861420) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>      | The protein encoded by this gene is a microsomal enzyme that catalyzes the conversion of the stress hormone cortisol to the inactive metabolite cortisone. In addition, the encoded protein can catalyze the reverse reaction, the conversion of cortisone to cortisol. Too much cortisol can lead to central obesity, and a particular variation in this gene has been associated with obesity and insulin resistance in children. Mutations in this gene and H6PD (hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase)) are the cause of cortisone reductase deficiency. Alternate splicing results in multiple transcript variants encoding the same protein. |
| <b>Molecular Mass</b>   | 32.4 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>AA Sequence</b>      | MAFMKKYLLPILGLFMAYYYYSANEEFRPEMLQGKKVIVTGASKGIGREMAYHLAKM<br>GAHVVTARSKETLQKVVSHCLELGAASAHYIAGTMEDMTFAEQFVAQAGKLMGGL<br>DMLILNHITNTSLNLFHDDIHHVRKSMEVNFLSYVVLTVAAALPMLKQSNQSIVVSSLA<br>GKVAYPMVAAYSASKFALDGGFFSSIRKEYSVSRVNVISITLCVLGLIDTETAMKAVSGI<br>VHMQAAPKEECALEIIKGGALRQEEVYYDSSLWTTLLIRNPCRKILEFLYSTSYNMDR                                                                                                                                                                                                                                                                                                                                                       |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

FINKTRTRPLEQKLISEEDLAANDILDYKDDDDKV

|                       |                                                                                            |
|-----------------------|--------------------------------------------------------------------------------------------|
| <b>Purity</b>         | > 80% as determined by SDS-PAGE and Coomassie blue staining                                |
| <b>Stability</b>      | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| <b>Storage</b>        | Store at -80 centigrade. Avoid repeated freeze-thaw cycles.                                |
| <b>Concentration</b>  | 50 µg/mL as determined by BCA                                                              |
| <b>Storage Buffer</b> | 100 mM glycine, 25 mM Tris-HCl, pH 7.3.                                                    |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                           |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | HSD11B1 hydroxysteroid 11-beta dehydrogenase 1 [ Homo sapiens (human) ]                                                                                                                                                                                                                                   |
| <b>Official Symbol</b> | HSD11B1                                                                                                                                                                                                                                                                                                   |
| <b>Synonyms</b>        | HSD11B1; hydroxysteroid (11-beta) dehydrogenase 1; HSD11, HSD11B; corticosteroid 11-beta-dehydrogenase isozyme 1; SDR26C1; short chain dehydrogenase/reductase family 26C; member 1; short chain dehydrogenase/reductase family 26C, member 1; HDL; 11-DH; HSD11; HSD11B; HSD11L; 11-beta-HSD1; MGC13539; |
| <b>Gene ID</b>         | 3290                                                                                                                                                                                                                                                                                                      |
| <b>mRNA Refseq</b>     | NM_181755                                                                                                                                                                                                                                                                                                 |
| <b>Protein Refseq</b>  | NP_861420                                                                                                                                                                                                                                                                                                 |

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SDS-PAGE



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