

## HSD17B1 Protein, Human, Recombinant (His &amp; Myc)

## General Information

Synonyms:	EDH17B1;Placental 17-beta-hydroxysteroid dehydrogenase;EDH17B2;SDR28C1;HSD17B1;17-beta-hydroxysteroid dehydrogenase type 1;17-beta-HSD 1;Estradiol 17-beta-dehydrogenase 1;Short chain dehydrogenase/reductase family 28C member 1;E17KSR;20 alpha-hydroxysteroid dehydrogenase (20-alpha-HSD);E2DH;EDHB17
Protein Construction:	2-328 aa
Species:	Human
Expression Host:	E. coli
Accession:	P14061
Molecular Weight:	42.3 kDa (predicted)
AA Sequence:	ARTVVLITGCSSGIGLHLAVRLASDPSQSFVKYATLRDLKTQGRLWEAARALACPPGSLETQLQDVRDSKSVAA ARERVTEGRVDVLCNAGLGLLPLEALGEDAVASVLDVNVVGTVMRLQAFLPDMKRRGSGRVLVTGVS LMGLPFNDVYCASKFALEGLCESLAVLLLPGVHLSLIECGPVHTAFMEKVLGSPEEVLDRDIIHTFHRFYQYLA HSKQVFREAAQNPEEVAEVFLTALRAPKPTLRYFTTERFLPLLRMLDDPSGSNYVTAMHREVFVDVPAKAE AGAEAGGGAGPGAEDGAVGDPPELGDPPAAPQ

## QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/ $\mu$ g of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

## Preparation and Storage

## Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100  $\mu$ g/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

## Stability &amp; Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

*Actual storage temperature shall be subject to the COA.*

## Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

**Protein Background**

Favors the reduction of estrogens and androgens. Converts estrone (E1) to a more potent estrogen, 17beta-estradiol (E2). Also has 20-alpha-HSD activity. Uses preferentially NADH.

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