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HSD17B8 Human

Catalog #:ENPS-115

For research use only.

Description:HSD17B8 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 281 amino acids (1-261 a.a.) and having a molecular mass of 29.1kDa.HSD17B8 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Synonyms: Estradiol 17-beta-dehydrogenase 8, 17-beta-hydroxysteroid dehydrogenase 8, 17-beta-HSD 8, 3-oxoacyl-[acyl-carrier-protein] reductase, Protein Ke6, Ke-6, Really interesting new gene 2 protein, Testosterone 17-beta-dehydrogenase 8, HSD17B8, FABGL, HKE6, RIN

Source: Escherichia Coli.

Physical Appearance: Sterile filtered colorless solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MASQLQNRLR SALALVTGAG SGIGRAVSVR LAGEGATVAA CDLDRAAAQE TVRLLGGPGS KEGPPRGNHA AFQADVSEAR AARCLLEQVQ ACFSRPPSVV VSCAGITQDE FLLHMSEDDW DKVIAVNLKG TFLVTQAAAQ ALVSNGCRGS IINISSIVGK VGNVGQTNYA ASKAGVIGLT QTAARELGRH GIRCNSVLPG FIATPMTQKV PQ

Purity: Greater than 95.0% as determined by SDS-PAGE.

Formulation:
HSD17B8 solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 40% glycerol and 150mM NaCl.

Stability:
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. They may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:
Estradiol 17-beta-dehydrogenase 8 (HSD17B8) is a member of the short-chain dehydrogenases/reductases (SDR) family. In mice, the HSD17B8 protein is a 17-beta-hydroxysteroid dehydrogenase which can regulate the concentration of biologically active estrogens and androgens. HSD17B8 is preferentially an oxidative enzyme and inactivates estradiol, testosterone, and dihydrotestosterone. However, the HSD17B8 enzyme has some reductive activity and can synthesize estradiol from estrone. HSD17B8 may have a role in biosynthesis of fatty acids in mitochondria.

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