

DHRS9 Protein, Human (His)

Cat. No.:	HY-P76871
Synonyms:	Dehydrogenase/reductase SDR family member 9; 3-alpha-HSD; RDH-E2; RDH15; SDR9C4
Species:	Human
Source:	E. coli
Accession:	Q9BPW9 (R18-V319)
Gene ID:	10170
Molecular Weight:	Approximately 34 kDa

PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The DHRS9 protein is a 3-alpha-hydroxysteroid dehydrogenase that performs the conversion of 3-alpha-tetrahydroprogesterone (allopregnanolone) to dihydroxyprogesterone and 3-alpha-androstanediol to dihydroxyprogesterone. This enzymatic activity has been supported by studies. Furthermore, DHRS9 also plays a significant role in the biosynthesis of retinoic acid from retinaldehyde, as evidenced by research. Notably, this protein has the ability to utilize both NADH and NADPH as coenzymes in its enzymatic reactions.
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Caution: Product has not been fully validated for medical applications. For research use only.

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