Recombinant Full Length Human BOLA3 Protein, GST-tagged

Cat. No. BOLA3-3766HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human BOLA3 full-length ORF (AAH42036.1, 1 a.a. - 68 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	68 amino acids
Description	This gene encodes a member of the 17beta-hydroxysteroid dehydrogenase family of short-chain dehydrogenases/reductases. It has a dual function in estrogen activation and androgen inactivation and plays a major role in establishing the estrogen E2 concentration gradient between serum and peripheral tissues. The encoded protein catalyzes the last step in estrogen activation, using NADPH to convert estrogens E1 and E2 and androgens like 4-androstenedione, to testosterone. It has an N-terminal short-chain dehydrogenase domain with a cofactor binding site, and a narrow, hydrophobic C-terminal domain with a steroid substrate binding site. This gene is expressed primarily in the placenta and ovarian granulosa cells, and to a lesser extent, in the endometrium, adipose tissue, and prostate. Polymorphisms in this gene have been linked to breast and prostate cancer. A pseudogene of this gene has been identified. Alternative splicing results in multiple transcript variants.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	33.8 kDa

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AA Sequence	MAAWSPAAAAPLLRGIRGLPLHHRMFATQTEGELRVTQILKEKFPRATAIKVTDISGG CGAMYEIKIE
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	BOLA3 bolA homolog 3 (E. coli) [Homo sapiens]
Official Symbol	BOLA3
Synonyms	bolA homolog 3 (E. coli); bolA-like 3 (E. coli); MMDS2; bolA-like protein 3; BOLA3
Gene ID	388962
mRNA Refseq	NM_212552.2
Protein Refseq	NP_997717.2
MIM	613183
UniProt ID	Q53S33

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