

## Recombinant Human GCHFR, His-tagged

Cat. No. GCHFR-245H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	GCHFR, 1-84aa, Human, His tag, E.coli
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-84aa
<b>Description</b>	GTP cyclohydrolase I feedback regulatory protein(GCHFR) binds to and mediates tetrahydrobiopterin inhibition of GTP cyclohydrolase I. The regulatory protein, GCHFR, consists of a homodimer. It is postulated that GCHFR may play a role in regulating phenylalanine metabolism in the liver and in the production of biogenic amine neurotransmitters and nitric oxide. Recombinant human GCHFR protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 40% glycerol, 1mM DTT
<b>Molecular Mass</b>	12.1 kDa (107aa) confirmed by MALDI-TOF
<b>AA Sequence</b>	MGSSHHHHHH SGLVPRGSH MGSMPLYLLIS TQIRMEVGPT MVGDEQSDPE LMQHLGASKR RALGNFYEY YVDDPPRIVL DKLERRGFRV LSMTGVGQTL VWCLHKE

 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

<b>Purity</b>	>95% by SDS - PAGE
<b>Storage</b>	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
<b>Concentration</b>	1 mg/ml (determined by Bradford assay)

## GENE INFORMATION

<b>Gene Name</b>	GCHFR GTP cyclohydrolase I feedback regulator [ Homo sapiens ]
<b>Official Symbol</b>	GCHFR
<b>Synonyms</b>	GCHFR; GTP cyclohydrolase I feedback regulator; GTP cyclohydrolase I feedback regulatory protein; GTP cyclohydrolase 1 feedback regulatory protein; GFRP; HsT16933; P35; MGC138467; MGC138469;
<b>Gene ID</b>	2644
<b>mRNA Refseq</b>	NM_005258
<b>Protein Refseq</b>	NP_005249
<b>MIM</b>	602437
<b>UniProt ID</b>	P30047
<b>Chromosome Location</b>	15q15
<b>Pathway</b>	Metabolism, organism-specific biosystem; Metabolism of nitric oxide, organism-specific biosystem; Tetrahydrobiopterin (BH4) synthesis, recycling, salvage and

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regulation, organism-specific biosystem; eNOS activation and regulation, organism-specific biosystem;

**Function**

GTP cyclohydrolase I binding; GTP-dependent protein binding; amino acid binding; enzyme inhibitor activity; protein binding;

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