

Recombinant Human GCHFR, His-tagged

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

SPECIFICATION

Product Overview	GCHFR, 1-84aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-84aa
Description	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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 40% glycerol, 1mM DTT
Molecular Mass	12.1 kDa (107aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMPLYLLIS TQIRMEVGPT MVGDEQSDPE LMQHLGASKR RALGNNFYEY YVDDPPRIVL DKLERRGFRV LSMTGVGQTL VWCLHKE

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Purity	>95% by SDS - PAGE
Storage	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.
Concentration	1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	GCHFR GTP cyclohydrolase I feedback regulator [Homo sapiens]
Official Symbol	GCHFR
Synonyms	GCHFR; GTP cyclohydrolase I feedback regulator; GTP cyclohydrolase I feedback regulatory protein; GTP cyclohydrolase 1 feedback regulatory protein; GFRP; HsT16933; P35; MGC138467; MGC138469;
Gene ID	2644
mRNA Refseq	NM_005258
Protein Refseq	NP_005249
MIM	602437
UniProt ID	P30047
Chromosome Location	15q15
Pathway	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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