

Recombinant human GCHFR protein

Catalog Number: ATGP2738

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-84aa

UniProt No.

P30047

NCBI Accession No.

NP_005249

Alternative Names

GTP cyclohydrolase I feedback regulatory protein, GFRP, HsT16933, P35

PRODUCT SPECIFICATION

Molecular Weight

12.1 kDa (107aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 40% glycerol, 1mM DTT

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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.

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Amino acid Sequence

MGSSHHHHHH SGLVPRGSH MGSMPYLLIS TQIRMEVGPT MVGDEQSDPE LMQHLGASKR RALGNNFYEY YVDDPPRIVL
DKLERRGFRV LSMTGVGQTL VWCLHKE

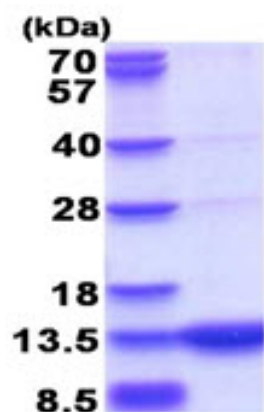
General References

Chavan B., et al. (2006) J. Invest. Dermatol. 126:2481-2489

Swick L., et al. (2006) J. Neurochem. 97:1447-1455

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.