Recombinant human RAR alpha/NR1B1 protein

Catalog Number: RAR0801

PRODUCT INFORMATION

Expression system
E.coli

Domain
68-173aa

UniProt No.
P10276

NCBI Accession No.
NP_000955

Alternative Names
Retinoic acid receptor alpha isoform 1, NR1B1, Retinoic acid receptor alpha, Retinoic acid receptor, alpha isoform 1, RAR alpha, RARalpha, RAR, Retinoic acid receptor, alpha isoform 1

PRODUCT SPECIFICATION

Molecular Weight
14 kDa (127aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid. In Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol, 1mM DTT, 0.1M NaCl

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
Retinoic acid receptors (RAR) belong to the large family of ligand responsive gene regulatory proteins that includes receptors for steroid and thyroid hormones. These proteins contain two highly conserved domains that are involved in determining their DNA and ligand-binding activities. Three isotypes of RARs, alpha, beta, and gamma, are encoded by distinct genetic loci and possess distinct transcriptional properties. Typically, RAR-alpha represses target gene transcription in the absence of hormone, whereas RAR-beta and gamma fail to repress

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under these conditions. Recombinant human RARalpha, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

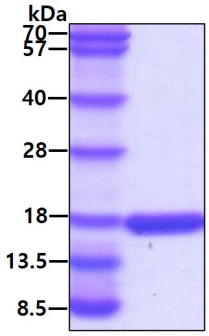
<MGSSHHHHHH SSGLVPRGSH> MSEEIVPSPP SPPPLPRIYK PCFVCQDKSS GYHYGVSACE GCKGFFRRSI QKNMVYTCHR DKNCIINKVT RNRCQYCRLQ KCFEVGMSKE SVRNDRNKKK KEVPKPE

General References

Kliewer SA., et al. (1992) Nature. 355, 446-9.
Gillespie RF., et al. (2007) J. Biol. Chem. 282, 33421-34.

DATA

SDS-PAGE



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